

80520

184793

mg

## STIC-Biotech/ChemLib

From: Bowman, Amy  
Sent: Tuesday, April 11, 2006 6:04 AM  
To: STIC-Biotech/ChemLib  
Cc: Bowman, Amy  
Subject: sequence search-10/728,399

Hello,  
I need a score over length search of SEQ ID NO: 1 in application 10/728,399, with lower and upper limits of 8 and 30 nucleobases, respectively, and a minimum of 80% identity.

Thank you,  
Amy Bowman  
AU 1635  
REM 2C31  
mail REM 2C18  
571-272-0755

Na 20

RECEIVED  
APR 11 2006  
STIC

Deirdre Amour

\*\*\*\*\*

Searcher: \_\_\_\_\_  
Searcher Phone: \_\_\_\_\_  
Date Searcher Picked up: \_\_\_\_\_  
Date completed: \_\_\_\_\_  
Searcher Prep Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

\*\*\*\*\*

Type of Search  
NA# \_\_\_\_\_ AA# \_\_\_\_\_  
S/L: \_\_\_\_\_ Oligomer: \_\_\_\_\_  
Encode/Transl: \_\_\_\_\_  
Structure #: \_\_\_\_\_ Text: \_\_\_\_\_  
Inventor: \_\_\_\_\_ Litigation: \_\_\_\_\_

\*\*\*\*\*

Vendors and cost where applicable  
STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUESTEL/ORBIT: \_\_\_\_\_  
LEXIS/NEXIS: \_\_\_\_\_  
SEQUENCE SYSTEM: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other (Specify): \_\_\_\_\_

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10/728,399

STD 1

4/24/06

## SCORE OVER LENGTH SEARCHES

Attached is a score over length search. This search was developed to overcome limitations in most standard search systems which favor large sequences with high scoring, but lesser overall identity over smaller sequences with higher overall identity. This search is especially useful for relatively small nucleic acid or polypeptide target sequences (antisense, fragments, probes, primers, RNAi, epitopes, haptens, etc.) claimed functionally via a form of hybridization and/or identity language and having defined upper and lower polynucleotide and or polypeptide length limits.

The score over length search is performed by first running the query sequence using examiner-specified identity and polynucleotide or protein length limit parameters, and saving 65,000 hits and 0 alignments from each desired database. The resulting output is reformatted using a Microsoft Word macro and is imported into Excel. The summary table data are then sorted by the ratio of score of each hit sequence divided by its length and the accession numbers for all hits below the examiner's desired score over length parameters are deleted. The remaining accession numbers are used to pull the corresponding sequences from the databases into subdatabases enriched for good hits and the query sequence is re-run against these subdatabases to yield the final results.

The score over length cutoff for this search is 80%

Examiner Please Note: This cover sheet should be included when submitting results to be scanned.

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GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 23, 2006, 11:43:23 ; Search time 0.001 Seconds

(without alignments)  
47.800 Million cell updates/sec

Title: US-10-728-399-1

Perfect score: 20

Sequence: 1 ttgtctccagctcttcgtt 20

Scoring table: IDENTITY\_NUC

Gapop 10.0 , Gapext 0.5

Searched:

106 seqs, 1195 residues

Total number of hits satisfying chosen parameters: 212

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database : rng.subdb.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	20	100.0	20	1 ADP69107 Human mitonREET-spe
2	19	95.0	20	1 ADP69109 Human mitonREET-spe
3	19	95.0	20	1 ADP69110 Human mitonREET-spe
4	18	90.0	20	1 ADP69108 Human mitonREET-spe
5	18	90.0	20	1 ADP69116 Human mitonREET-spe
6	17	85.0	20	1 ADP69124 Human mitonREET-spe
7	17	85.0	20	1 ADP69113 Human mitonREET-spe
8	16	80.0	20	1 ADP69111 Human mitonREET-spe
9	16	80.0	20	1 ADP69130 Human mitonREET-spe
10	13.8	69.0	17	1 ABN09352 Human GMMLP-1 17-m
11	13.8	69.0	17	1 ABN09353 Human GMMLP-1 17-m
12	13.8	69.0	17	1 ABN09354 Human GMMLP-1 17-m
13	13.8	69.0	17	1 ACN72443 Human GMMLP-1 prob
14	13.8	69.0	17	1 ACN72442 Human GMMLP-1 prob
15	13.8	69.0	17	1 ACN72444 Human GMMLP-1 prob
16	10.4	52.0	13	1 ABF03676 Oligonucleotide SE
17	10.4	52.0	13	1 ABF03677 Oligonucleotide SE
18	9.4	47.0	11	1 ABV64201 Human skin EST 198
19	9.4	47.0	11	1 ABV71622 Human skin EST 940
20	9.4	47.0	11	1 ADQ33489 Human facial skin-
21	9.4	47.0	11	1 ADQ32655 Human facial skin-
22	9	45.0	10	1 AAZ81653 Metastatic breast
23	9	45.0	10	1 AAF42075 Yeast NORF gene SA
24	9	45.0	10	1 ADU19570 Hypoxia-related tu
25	9	45.0	11	1 ABQ87397 Human skin stress/
26	9	45.0	11	1 ABV70379 Human skin EST 816
27	9	45.0	11	1 ABV62958 Human skin EST 744
28	9	45.0	11	1 ABV69205 Human skin EST 699
29	9	45.0	11	1 ABV65235 Human skin EST 318
30	9	45.0	11	1 ABV65400 Human skin EST 402
31	9	45.0	11	1 ADG64354 DNA polymerase 3'-
32	8.6	43.0	9	1 ADR36038 Human nicking agen
33	8.6	43.0	9	1 ADR36039 Human nicking agen

C 34	8.6	43.0	9	1	ADR36041	Human nicking agen
C 35	8.6	43.0	9	1	ADR36040	Human nicking agen
C 36	8.4	42.0	10	1	AAV05484	BemAI restriction
C 37	8.4	42.0	10	1	AAZ78224	Human dendritic ce
C 38	8.4	42.0	10	1	AAZ82947	Metastatic breast
C 39	8.4	42.0	10	1	AAZ83008	Metastatic breast
C 40	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 41	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 42	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 43	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 44	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 45	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 46	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 47	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 48	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 49	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 50	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 51	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 52	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 53	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 54	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 55	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 56	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 57	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 58	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 59	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 60	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 61	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 62	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 63	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 64	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 65	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 66	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 67	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 68	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 69	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 70	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 71	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 72	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 73	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 74	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 75	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 76	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 77	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 78	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 79	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 80	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 81	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 82	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 83	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 84	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 85	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 86	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 87	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 88	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 89	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 90	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 91	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 92	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 93	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 94	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 95	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 96	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 97	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 98	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 99	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 100	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 101	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 102	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 103	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 104	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 105	8.4	42.0	10	1	AAZ86119	Metastatic breast
C 106	8.4	42.0	10	1	AAZ86119	Metastatic breast

107	5:2	26:0	10	1	AAZ86307	Metastatic breast	c 180	2:8	14:0	10	1	AACT4005	Human dendritic ce
c 108	5:2	26:0	10	1	AAZ81791	Metastatic breast	c 181	2:8	14:0	10	1	AA56168	Human monocyte gen
c 109	4:8	24:0	10	1	AAF39425	Yeast NORF gene SA	c 182	2:8	14:0	10	1	AAH63530	Human ubiquitously
c 110	4:8	24:0	11	1	ADQ32655	Human facial skin-	c 183	2:8	14:0	10	1	AAF38187	Yeast NORF gene SA
c 111	4:4	22:0	10	1	AAF42075	Yeast NORF gene SA	c 184	2:8	14:0	10	1	AAF39032	Yeast NORF gene SA
c 112	4:4	22:0	10	1	AAZ81566	Metastatic breast	c 185	2:8	14:0	10	1	AAF33475	Yeast NORF gene SA
c 113	4:2	21:0	10	1	AAQ88288	5'-target sequence	c 186	2:8	14:0	10	1	ABL60204	Human MUC1 PCR pri
c 114	4:2	21:0	10	1	AAQ88294	Primer sequence 8	c 187	2:8	14:0	10	1	ABV78336	Human ribosomal pr
c 115	4:2	21:0	10	1	AAZ08343	Nilaparvata lugens	c 188	2:8	14:0	10	1	ABK23747	Transcript tag DNA
c 116	4:2	21:0	10	1	AAA70756	PCR primer #2 for	c 189	2:8	14:0	10	1	ACA94446	DNA tag from human
c 117	4:2	21:0	10	1	AAH41695	Anti-PEP gene cons	c 190	2:8	14:0	10	1	ADU96158	CD15+ myeloid cell
c 118	4:2	21:0	10	1	ABT14242	Nucleic acid PCR a	c 191	2:8	14:0	10	1	ADU53195	Human CD3E primer
c 119	4:2	21:0	10	1	ADK69774	Type 2 helper T (T	c 192	2:8	14:0	10	1	AD577586	Breast cancer dete
c 120	4:2	21:0	10	1	ADZ85566	Human BACE455 cDNA	c 193	2:8	14:0	10	1	AD576686	Breast cancer dete
c 121	4	20:0	9	1	ADR36038	Human nicking agen	c 194	2:8	14:0	10	1	AD577754	Breast cancer dete
c 122	4	20:0	9	1	ADR36039	Human nicking agen	c 195	2:4	12:0	8	1	AA880951	A. thaliana primer
c 123	4	20:0	9	1	ADR36041	Human nicking agen	c 196	2:4	12:0	8	1	AAA80762	A. thaliana primer
c 124	4	20:0	9	1	ADR36040	Human nicking agen	c 197	2:4	12:0	10	1	AA504430	Yeast NORF gene SA
c 125	4	20:0	11	1	ABV69205	Human skin EST 699	c 198	2:4	12:0	10	1	AAF42997	Yeast NORF gene SA
c 126	3:6	18:0	10	1	AA598827	Colony stimulating	c 199	2:4	12:0	10	1	ADP47134	Human phospholipas
c 127	3:6	18:0	11	1	ABV66235	Human skin EST 402	c 200	2:4	12:0	10	1	AAF43826	Yeast NORF gene SA
c 128	3:6	18:0	20	1	ADP69107	Human mitONEET-spe	c 201	2:4	12:0	10	1	AAF41634	Yeast NORF gene SA
c 129	3:6	18:0	20	1	ADP69109	Human mitONEET-spe	c 202	2:4	12:0	10	1	AA595397	Human ICAM2 gene a
c 130	3:6	18:0	20	1	ADP69110	Human mitONEET-spe	c 203	2:4	12:0	10	1	AA597350	Human CRYBB1 gene
c 131	3:6	18:0	20	1	ADP69108	Human mitONEET-spe	c 204	2:4	12:0	13	1	ABF03676	Oligonucleotide SE
c 132	3:6	18:0	20	1	ADP69116	Human mitONEET-spe	c 205	2:4	12:0	13	1	ABF03677	Oligonucleotide SE
c 133	3:6	18:0	20	1	ADP69124	Human mitONEET-spe	c 206	2:2	11:0	11	1	ADQ33489	Human facial skin-
c 134	3:6	18:0	20	1	ADP69130	Human mitONEET-spe	c 207	2	10:0	10	1	AAF38748	Yeast NORF gene SA
c 135	3:4	17:0	10	1	AAZ81653	Metastatic breast	c 208	2	10:0	10	1	AAF38731	Yeast NORF gene SA
c 136	3:4	17:0	10	1	AAU19570	Hypoxia-related tu	c 209	2	10:0	10	1	AAF33728	Yeast NORF gene SA
c 137	3:4	17:0	10	1	AAZ82947	Metastatic breast	c 210	2	10:0	10	1	AAF34632	Yeast NORF gene SA
c 138	3:4	17:0	10	1	AAZ83008	Metastatic breast	c 211	2	10:0	10	1	AAF36782	Yeast NORF gene SA
c 139	3:4	17:0	10	1	AAZ86119	Metastatic breast	c 212	2	10:0	11	1	ADG64354	DNA polymerase 3'-
c 140	3:4	17:0	10	1	AAF34179	Yeast NORF gene SA							
c 141	3:4	17:0	10	1	AAF39592	Yeast NORF gene SA							
c 142	3:4	17:0	10	1	AAF38171	Yeast NORF gene SA							
c 143	3:4	17:0	10	1	ACC41713	Zinc finger protei							
c 144	3:4	17:0	10	1	AEZ67944	NTRK1 gene polymor							
c 145	3:4	17:0	10	1	AEZ62012	NTRK1 gene polymor							
c 146	3:4	17:0	10	1	AAZ83176	Metastatic breast							
c 147	3:4	17:0	10	1	AAH63895	Human ubiquitously							
c 148	3:4	17:0	10	1	AAZ41988	Yeast NORF gene SA							
c 149	3:4	17:0	10	1	ADZ25917	Human MC4R gene po							
c 150	3:4	17:0	10	1	ABV78460	Human Th1 cell pre							
c 151	3:4	17:0	10	1	ABK23710	Transcript tag DNA							
c 152	3:4	17:0	10	1	ADA00650	Oligonucleotide mi							
c 153	3:4	17:0	11	1	ABV64201	Human skin EST 198							
c 154	3:4	17:0	11	1	ABV71622	Human skin EST 940							
c 155	3:4	17:0	11	1	ABQ87397	Human skin stress/							
c 156	3:4	17:0	11	1	ABV65400	Human skin EST 318							
c 157	3:4	17:0	17	1	ABN09352	Human skin EST 17-m							
c 158	3:4	17:0	17	1	ABN09353	Human GMLP-1 17-m							
c 159	3:4	17:0	17	1	ABN09354	Human GMLP-1 17-m							
c 160	3:4	17:0	17	1	ACN72443	Human GMLP-1 prob							
c 161	3:4	17:0	17	1	ACN72442	Human GMLP-1 prob							
c 162	3:4	17:0	17	1	ACN72444	Human GMLP-1 prob							
c 163	3:4	17:0	20	1	ADP69113	Human mitONEET-spe							
c 164	3:4	17:0	20	1	ADP69111	Human mitONEET-spe							
c 165	3:2	16:0	8	1	AAT09601	3'-primer used for							
c 166	3:2	16:0	8	1	AAT09436	5'-primer used for							
c 167	3:2	16:0	10	1	AAZ78224	Human dendritic ce							
c 168	3:2	16:0	10	1	AAZ80874	Metastatic breast							
c 169	3:2	16:0	10	1	AAZ95346	Human Histamine H2							
c 170	3:2	16:0	11	1	ABV70379	Human skin EST 816							
c 171	3:2	16:0	11	1	ABV62958	Human skin EST 744							
c 172	3	15:0	10	1	AAV05484	BsmAI restriction							
c 173	3	15:0	10	1	AAF41789	Yeast NORF gene SA							
c 174	3	15:0	10	1	AAF69645	Human IL4Ralpha ge							
c 175	2:8	14:0	8	1	AA81188	A. thaliana primer							
c 176	2:8	14:0	10	1	ADH69419	Exon 4/5 junction							
c 177	2:8	14:0	10	1	AAV50258	Yeast tag for addi							
c 178	2:8	14:0	10	1	AAZ83592	Metastatic breast							
c 179	2:8	14:0	10	1	AAZ85035	Metastatic breast							

## ALIGNMENTS

RESULT 1	
ADP69107	
ID	ADP69107 standard; DNA; 20 BP.
XX	
AC	ADP69107;
XX	
DT	09-SEP-2004 (first entry)
XX	
DE	Human mitONEET-specific antisense oligonucleotide #1.
XX	
KW	human; antisense oligonucleotide; mitochondrial membrane;
KW	insulin sensitising antidiabetic thiazolidinediones; mitONEET; diabetes;
KW	immunological disorder; cardiovascular disorder; including hypertension;
KW	neurological disorders; ischaemia; reperfusion; ss;
KW	2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX	
OS	Homo sapiens.
XX	
PN	WO2004053060-A2.
XX	
PD	24-JUN-2004.
XX	
PF	25-NOV-2003; 2003WO-US037621.
XX	
PR	06-DEC-2002; 2002US-0431529P.
XX	
PA	(PHAA ) PHARMACIA CORP.
XX	
PI	Colca JR;
XX	
DR	WPI; 2004-468836/44.
XX	
PT	New antisense oligonucleotides encoding mitONEET, useful for modulating
PT	mitONEET expression or for treating diseases associated with mitONEET,
PT	e.g. diabetes, immunological disorders or cardiovascular disorders.

XX  
PS Claim 4; SEQ ID NO 1; 226pp; English.

CC The invention comprises antisense oligonucleotides that are targeted to  
CC the nucleic acids encoding a family of human proteins from mitochondrial  
CC membranes, which bind insulin sensitising, antidiabetic  
CC thiazolidinediones (referred to as: mitoNEET). The antisense  
CC oligonucleotides of the invention are useful for modulating mitoNEET  
CC expression and for treating diseases or conditions associated with  
CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular  
CC disorders including hypertension, neurological disorders, and  
CC ischaemia/reperfusion injuries. The present DNA sequence represents a  
CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The  
CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a  
CC phosphorothioate backbone.

XX  
SQ Sequence 20 BP; 1 A; 6 C; 3 G; 10 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 1.6;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGTCCTCCAGTCTCTTCGTT 20  
DB 1 TTGTCCTCCAGTCTCTTCGTT 20

RESULT 2  
ADP69109  
ID ADP69109 standard; DNA; 20 BP.  
XX  
AC ADP69109;  
DT 09-SEP-2004 (first entry)  
XX  
DE Human mitoNEET-specific antisense oligonucleotide #3.  
XX  
KW human; antisense oligonucleotide; mitochondrial membrane;  
KW insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;  
KW immunological disorders; cardiovascular disorder; including hypertension;  
KW neurological disorders; ischaemia; reperfusion; ss;  
KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.

XX  
OS Homo sapiens.  
XX  
PN WO2004053060-A2.  
XX  
PD 24-JUN-2004.  
XX  
PF 25-NOV-2003; 2003WO-US037621.  
XX  
PR 06-DEC-2002; 2002US-0431529P.  
XX  
PA (PHAA ) PHARMACIA CORP.  
XX  
PI Colca JR;  
XX  
DR WPI; 2004-468836/44.  
XX  
PT New antisense oligonucleotides encoding mitoNEET, useful for modulating  
PT mitoNEET expression or for treating diseases associated with mitoNEET,  
PT e.g. diabetes, immunological disorders or cardiovascular disorders.

XX  
PS Claim 4; SEQ ID NO 3; 226pp; English.

CC The invention comprises antisense oligonucleotides that are targeted to  
CC the nucleic acids encoding a family of human proteins from mitochondrial  
CC membranes, which bind insulin sensitising, antidiabetic  
CC thiazolidinediones (referred to as: mitoNEET). The antisense  
CC oligonucleotides of the invention are useful for modulating mitoNEET  
CC expression and for treating diseases or conditions associated with  
CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular  
CC disorders including hypertension, neurological disorders, and

CC ischaemia/reperfusion injuries. The present DNA sequence represents a  
CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The  
CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a  
CC phosphorothioate backbone.

XX  
SQ Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;

Query Match 95.0%; Score 19; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 2.3;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TGTCTCCAGTCTCTTCGTT 20  
DB 1 TGTCTCCAGTCTCTTCGTT 19

RESULT 3  
ADP69110  
ID ADP69110 standard; DNA; 20 BP.  
XX  
AC ADP69110;  
DT 09-SEP-2004 (first entry)  
XX  
DE Human mitoNEET-specific antisense oligonucleotide #4.  
XX  
KW human; antisense oligonucleotide; mitochondrial membrane;  
KW insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;  
KW immunological disorder; cardiovascular disorder; including hypertension;  
KW neurological disorders; ischaemia; reperfusion; ss;  
KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.

XX  
OS Homo sapiens.  
XX  
PN WO2004053060-A2.  
XX  
PD 24-JUN-2004.  
XX  
PF 25-NOV-2003; 2003WO-US037621.  
XX  
PR 06-DEC-2002; 2002US-0431529P.  
XX  
PA (PHAA ) PHARMACIA CORP.  
XX  
PI Colca JR;  
XX  
DR WPI; 2004-468836/44.  
XX  
PT New antisense oligonucleotides encoding mitoNEET, useful for modulating  
PT mitoNEET expression or for treating diseases associated with mitoNEET,  
PT e.g. diabetes, immunological disorders or cardiovascular disorders.

XX  
PS Claim 4; SEQ ID NO 4; 226pp; English.

CC The invention comprises antisense oligonucleotides that are targeted to  
CC the nucleic acids encoding a family of human proteins from mitochondrial  
CC membranes, which bind insulin sensitising, antidiabetic  
CC thiazolidinediones (referred to as: mitoNEET). The antisense  
CC oligonucleotides of the invention are useful for modulating mitoNEET  
CC expression and for treating diseases or conditions associated with  
CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular  
CC disorders including hypertension, neurological disorders, and  
CC ischaemia/reperfusion injuries. The present DNA sequence represents a  
CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The  
CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a  
CC phosphorothioate backbone.

XX  
SQ Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;

Query Match 95.0%; Score 19; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 2.3;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY      1 TTGCTCCAGTCTCTTCGT 19
Db      2 TTGCTCCAGTCTCTTCGT 20

RESULT 4
ADP69108
ID      ADP69108 standard; DNA; 20 BP.
XX
AC      ADP69108;
XX
DT      09-SEP-2004 (first entry)
XX
DE      Human mitONEET-specific antisense oligonucleotide #2.
XX
KW      human; antisense oligonucleotide; mitochondrial membrane;
KW      insulin sensitising antidiabetic thiazolidinediones; mitONEET; diabetes;
KW      immunological disorder; cardiovascular disorder; including hypertension;
KW      neurological disorders; ischaemia; reperfusion; ss;
KW      2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
OS      Homo sapiens.
XX
PN      WO2004053060-A2.
XX
PD      24-JUN-2004.
XX
PF      25-NOV-2003; 2003WO-US037621.
XX
PR      06-DEC-2002; 2002US-0431529P.
XX
PA      (PHAA ) PHARMACIA CORP.
XX
PI      Colca JR;
XX
DR      WPI; 2004-468836/44.
XX
PT      New antisense oligonucleotides encoding mitONEET, useful for modulating
PT      mitONEET expression or for treating diseases associated with mitONEET,
PT      e.g. diabetes, immunological disorders or cardiovascular disorders.
XX
PS      Claim 4; SEQ ID NO 2; 226pp; English.
XX
CC      The invention comprises antisense oligonucleotides that are targeted to
CC      the nucleic acids encoding a family of human proteins from mitochondrial
CC      membranes, which bind insulin sensitising, antidiabetic
CC      thiazolidinediones (referred to as: mitONEET). The antisense
CC      oligonucleotides of the invention are useful for modulating mitONEET
CC      expression and for treating diseases or conditions associated with
CC      mitONEET, such as: diabetes, immunological disorders, cardiovascular
CC      disorders including hypertension, neurological disorders, and
CC      ischaemia/reperfusion injuries. The present DNA sequence represents a
CC      mitONEET-specific antisense oligonucleotide of the invention. NOTE: The
CC      present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
CC      phosphorothioate backbone.
XX
SQ      Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;

Query Match      90.0%; Score 18; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 GTCTCCAGTCTCTTCGT 20
Db      1 GTCTCCAGTCTCTTCGT 18

RESULT 5
ADP69116
ID      ADP69116 standard; DNA; 20 BP.
XX
AC      ADP69116;
XX

QY      1 TTGCTCCAGTCTCTTCG 18
Db      3 TTGCTCCAGTCTCTTCG 20

RESULT 6
ADP69124
ID      ADP69124 standard; DNA; 20 BP.
XX
AC      ADP69124;
XX
DT      09-SEP-2004 (first entry)
XX
DE      Human mitONEET-specific antisense oligonucleotide #18.
XX
KW      human; antisense oligonucleotide; mitochondrial membrane;
KW      insulin sensitising antidiabetic thiazolidinediones; mitONEET; diabetes;
KW      immunological disorder; cardiovascular disorder; including hypertension;
KW      neurological disorders; ischaemia; reperfusion; ss;
KW      2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
OS      Homo sapiens.

```

XX WO2004053060-A2.  
 XX 24-JUN-2004.  
 XX 25-NOV-2003; 2003WO-US037621.  
 XX 06-DEC-2002; 2002US-0431529P.  
 XX (PHAA ) PHARMACIA CORP.  
 XX Colca JR;  
 XX WPI; 2004-468836/44.  
 XX New antisense oligonucleotides encoding mitoNEET, useful for modulating  
 PT mitoNEET expression or for treating diseases associated with mitoNEET,  
 PT e.g. diabetes, immunological disorders or cardiovascular disorders.  
 XX Claim 4; SEQ ID NO 18; 226pp; English.  
 XX The invention comprises antisense oligonucleotides that are targeted to  
 CC the nucleic acids encoding a family of human proteins from mitochondrial  
 CC membranes, which bind insulin sensitising, antidiabetic  
 CC thiazolidinediones (referred to as: mitoNEET). The antisense  
 CC oligonucleotides of the invention are useful for modulating mitoNEET  
 CC expression and for treating diseases or conditions associated with  
 CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular  
 CC disorders including hypertension, neurological disorders, and  
 CC ischaemia/reperfusion injuries. The present DNA sequence represents a  
 CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The  
 CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a  
 CC phosphorothioate backbone.  
 XX Sequence 20 BP; 3 A; 7 C; 2 G; 8 T; 0 U; 0 Other;  
 SQ Query Match 85.0%; Score 17; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 4.7;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 TTGCTCCAGTCTCTTC 17  
 Db 4 TTGCTCCAGTCTCTTC 20  
 RESULT 7  
 ADP69113  
 ID ADP69113 standard; DNA; 20 BP.  
 XX AC ADP69113;  
 XX 09-SEP-2004 (first entry)  
 XX Human mitoNEET-specific antisense oligonucleotide #7.  
 XX human; antisense oligonucleotide; mitochondrial membrane;  
 KW insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;  
 KW immunological disorder; cardiovascular disorder; including hypertension;  
 KW neurological disorders; ischaemia; reperfusion; ss;  
 KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.  
 XX Homo sapiens.  
 OS  
 XX WO2004053060-A2.  
 XX 24-JUN-2004.  
 XX 25-NOV-2003; 2003WO-US037621.  
 XX 06-DEC-2002; 2002US-0431529P.  
 XX (PHAA ) PHARMACIA CORP.  
 XX Colca JR;  
 XX WPI; 2004-468836/44.  
 XX New antisense oligonucleotides encoding mitoNEET, useful for modulating  
 PT mitoNEET expression or for treating diseases associated with mitoNEET,  
 PT e.g. diabetes, immunological disorders or cardiovascular disorders.  
 XX Claim 4; SEQ ID NO 18; 226pp; English.  
 XX The invention comprises antisense oligonucleotides that are targeted to

PI Colca JR;  
 XX WPI; 2004-468836/44.  
 XX New antisense oligonucleotides encoding mitoNEET, useful for modulating  
 PT mitoNEET expression or for treating diseases associated with mitoNEET,  
 PT e.g. diabetes, immunological disorders or cardiovascular disorders.  
 XX Claim 4; SEQ ID NO 7; 226pp; English.  
 XX The invention comprises antisense oligonucleotides that are targeted to  
 CC the nucleic acids encoding a family of human proteins from mitochondrial  
 CC membranes, which bind insulin sensitising, antidiabetic  
 CC thiazolidinediones (referred to as: mitoNEET). The antisense  
 CC oligonucleotides of the invention are useful for modulating mitoNEET  
 CC expression and for treating diseases or conditions associated with  
 CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular  
 CC disorders including hypertension, neurological disorders, and  
 CC ischaemia/reperfusion injuries. The present DNA sequence represents a  
 CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The  
 CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a  
 CC phosphorothioate backbone.  
 XX Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;  
 SQ Query Match 85.0%; Score 17; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 4.7;  
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 4 TCTCCAGTCTCTTCGTT 20  
 Db 1 TCTCCAGTCTCTTCGTT 17  
 RESULT 8  
 ADP69111  
 ID ADP69111 standard; DNA; 20 BP.  
 XX AC ADP69111;  
 XX 09-SEP-2004 (first entry)  
 XX Human mitoNEET-specific antisense oligonucleotide #5.  
 XX human; antisense oligonucleotide; mitochondrial membrane;  
 KW insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;  
 KW immunological disorder; cardiovascular disorder; including hypertension;  
 KW neurological disorders; ischaemia; reperfusion; ss;  
 KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.  
 XX Homo sapiens.  
 OS  
 XX WO2004053060-A2.  
 XX 24-JUN-2004.  
 XX 25-NOV-2003; 2003WO-US037621.  
 XX 06-DEC-2002; 2002US-0431529P.  
 XX (PHAA ) PHARMACIA CORP.  
 XX Colca JR;  
 XX WPI; 2004-468836/44.  
 XX New antisense oligonucleotides encoding mitoNEET, useful for modulating  
 PT mitoNEET expression or for treating diseases associated with mitoNEET,  
 PT e.g. diabetes, immunological disorders or cardiovascular disorders.  
 XX Claim 4; SEQ ID NO 5; 226pp; English.  
 XX The invention comprises antisense oligonucleotides that are targeted to

CC the nucleic acids encoding a family of human proteins from mitochondrial  
CC membranes, which bind insulin sensitising, antidiabetic  
CC thiazolidinediones (referred to as: mitoNEET). The antisense  
CC oligonucleotides of the invention are useful for modulating mitoNEET  
CC expression and for treating diseases or conditions associated with  
CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular  
CC disorders including hypertension, neurological disorders, and  
CC ischaemia/reperfusion injuries. The present DNA sequence represents a  
CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The  
CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a  
CC phosphorothioate backbone.  
XX  
SQ Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;

Query Match 80.0%; Score 16; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.8;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CTCGAGTCTCTTCGTT 20  
Db 1 CTCGAGTCTCTTCGTT 16

RESULT 9  
ADP69130  
ID ADP69130 standard; DNA; 20 BP.  
XX  
AC ADP69130;  
XX  
DT 09-SEP-2004 (first entry)  
XX  
DE Human mitoNEET-specific antisense oligonucleotide #24.  
XX  
KW human; antisense oligonucleotide; mitochondrial membrane;  
KW insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;  
KW immunological disorder; cardiovascular disorder; including hypertension;  
KW neurological disorders; ischaemia; reperfusion; ss;  
KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.  
XX  
OS Homo sapiens.

XX  
XN WO2004053060-A2.  
XX  
XX 24-JUN-2004.  
XX  
PF 25-NOV-2003; 2003WO-US037621.  
XX  
PR 06-DEC-2002; 2002US-0431529P.  
XX  
XX (PHAA ) PHARMACIA CORP.  
XX  
PI Colca JR;  
XX  
XX WPI; 2004-469836/44.  
XX  
XX New antisense oligonucleotides encoding mitoNEET, useful for modulating  
PT mitoNEET expression or for treating diseases associated with mitoNEET,  
PT e.g. diabetes, immunological disorders or cardiovascular disorders.  
XX  
XX Claim 4; SEQ ID NO 24; 226pp; English.  
XX  
XX The invention comprises antisense oligonucleotides that are targeted to  
CC the nucleic acids encoding a family of human proteins from mitochondrial  
CC membranes, which bind insulin sensitising, antidiabetic  
CC thiazolidinediones (referred to as: mitoNEET). The antisense  
CC oligonucleotides of the invention are useful for modulating mitoNEET  
CC expression and for treating diseases or conditions associated with  
CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular  
CC disorders including hypertension, neurological disorders, and  
CC ischaemia/reperfusion injuries. The present DNA sequence represents a  
CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The  
CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a  
CC phosphorothioate backbone.

XX  
SQ Sequence 20 BP; 3 A; 7 C; 2 G; 8 T; 0 U; 0 Other;  
Query Match 80.0%; Score 16; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 6.8;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 TTGTCTCCAGTCTCTT 16  
Db 5 TTGTCTCCAGTCTCTT 20  
RESULT 10  
ABN09352/c  
ID ABN09352 standard; DNA; 17 BP.  
XX  
AC ABN09352;  
XX  
DT 29-MAY-2002 (first entry)  
XX  
DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9344.  
XX  
KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
KW skeletal muscle disorder; amplicon; screening; ss.  
XX  
OS Homo sapiens.  
XX  
XN WO200192524-A2.  
XX  
PD 06-DEC-2001.  
XX  
XX 25-MAY-2001; 2001WO-US016981.  
XX  
PR 26-MAY-2000; 2000US-0207456P.  
PR 21-SEP-2000; 2000US-0234687P.  
PR 27-SEP-2000; 2000US-0236359P.  
PR 04-OCT-2000; 2000GB-00024263.  
PR 30-JAN-2001; 2001WO-US000661.  
PR 30-JAN-2001; 2001WO-US000662.  
PR 30-JAN-2001; 2001WO-US000663.  
PR 30-JAN-2001; 2001WO-US000664.  
PR 30-JAN-2001; 2001WO-US000665.  
PR 30-JAN-2001; 2001WO-US000666.  
PR 30-JAN-2001; 2001WO-US000667.  
PR 30-JAN-2001; 2001WO-US000668.  
PR 30-JAN-2001; 2001WO-US000669.  
PR 30-JAN-2001; 2001WO-US000670.  
PR 05-FEB-2001; 2001US-0266860P.  
XX  
XX (AEOM-) AEOMICA INC.  
XX  
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
XX WPI; 2002-179446/23.  
XX  
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
PT or as specific biomolecule capture probes for surface-enhanced laser  
PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX  
XX Disclosure; SEQ ID NO 9344; 214pp; English.  
XX  
XX The present invention describes a human genome-derived myosin-like  
CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
CC nucleic acids can be used as probes to detect, characterise and quantify  
CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
CC protein variants having desired phenotypic improvements, and for  
CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
CC -1 proteins, as standards in assays used to determine the concentration  
CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule

CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 CC  
 XX Sequence 17 BP; 6 A; 2 C; 8 G; 1 T; 0 U; 0 Other;  
 SQ  
 Query Match 69.0%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 12;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 4 TCTCCAGTCTCTTCGTT 20  
 Db 17 TCCCCAGCGCTCTTCGTT 1  
 RESULT 11  
 ABN09353/c  
 ID ABN09353 standard; DNA; 17 BP.  
 XX  
 AC ABN09353;  
 XX  
 DT 29-MAY-2002 (first entry)  
 XX  
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9345.  
 XX  
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FN WO200192524-A2.  
 XX  
 PD 06-DEC-2001.  
 XX  
 PF 25-MAY-2001; 2001WO-US016981.  
 XX  
 PR 26-MAY-2000; 2000US-0207456P.  
 PR 21-SEP-2000; 2000US-0234687P.  
 PR 27-SEP-2000; 2000US-0236359P.  
 PR 04-OCT-2000; 2000GB-00024263.  
 PR 30-JAN-2001; 2001WO-US000661.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 05-FEB-2001; 2001US-0266860P.  
 XX  
 PA (AEOM-) AEOMICA INC.  
 XX  
 PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX WPI; 2002-179446/23.  
 DR  
 PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption/ionization, comprises human myosin-like protein hGDMPLP-1.  
 XX  
 PS Disclosure; SEQ ID NO 9345; 214pp; English.  
 XX

CC The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 CC  
 XX Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;  
 SQ  
 Query Match 69.0%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 12;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 3 GTCTCCAGTCTCTTCGT 19  
 Db 17 GTCCCGAGCGCTCTTCGT 1  
 RESULT 12  
 ABN09354/c  
 ID ABN09354 standard; DNA; 17 BP.  
 XX  
 AC ABN09354;  
 XX  
 DT 29-MAY-2002 (first entry)  
 XX  
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9346.  
 XX  
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FN WO200192524-A2.  
 XX  
 PD 06-DEC-2001.  
 XX  
 PF 25-MAY-2001; 2001WO-US016981.  
 XX  
 PR 26-MAY-2000; 2000US-0207456P.  
 PR 21-SEP-2000; 2000US-0234687P.  
 PR 27-SEP-2000; 2000US-0236359P.  
 PR 04-OCT-2000; 2000GB-00024263.  
 PR 30-JAN-2001; 2001WO-US000661.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 05-FEB-2001; 2001US-0266860P.  
 XX  
 PA (AEOM-) AEOMICA INC.

XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
PI WPI; 2002-179446/23.  
XX  
PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
PT or as specific biomolecule capture probes for surface-enhanced laser  
PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX  
XX Disclosure; SEQ ID NO 9346; 214pp; English.  
XX  
CC The present invention describes a human genome-derived myosin-like  
CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
CC nucleic acids can be used as probes to detect, characterise and quantify  
CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
CC protein variants having desired phenotypic improvements, and for  
CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
CC -1 proteins, as standards in assays used to determine the concentration  
CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
CC capture probes for surface-enhanced laser desorption/ionisation, as  
CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
CC production, and in vaccines or for replacement therapy. The  
CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
CC disorder associated with the expression of hGDMPLP-1, in particular heart  
CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
CC The present sequence represents an oligomer used in the screening of the  
CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequence  
XX  
SQ Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;  
Query Match 69.0%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 12;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 2 TGCTCCAGTCTCTCG 18  
Db 17 TGTCCTCCAGCTCTCTCG 1  
RESULT 13  
ACN72443/c  
ID ACN72443 standard; DNA; 17 BP.  
XX  
AC ACN72443;  
XX  
DT 02-DEC-2004 (first entry)  
XX  
XX Human GDMPLP-1 probe SEQ ID NO:9345.  
DE  
DE Human; ss; probe; myosin-like protein-1; hGDMPLP-1;  
KW hGDMPLP-1 agonist hGDMPLP antagonist; hGDMPLP inhibitor; heart disorder;  
KW skeletal muscle function.  
XX  
OS Homo sapiens.  
XX  
XX US2004137589-A1.  
XX  
PD 15-JUL-2004.  
XX  
XX 26-NOV-2003; 2003US-00723361.  
XX  
PR 26-MAY-2000; 2000US-0207456P.  
PR 21-SEP-2000; 2000US-0234687P.  
PR 27-SEP-2000; 2000US-0236359P.  
PR 04-OCT-2000; 2000GB-00024263.  
PR 30-JAN-2001; 2001WO-US000661.  
PR 30-JAN-2001; 2001WO-US000662.

PR 30-JAN-2001; 2001WO-US000663.  
PR 30-JAN-2001; 2001WO-US000664.  
PR 30-JAN-2001; 2001WO-US000665.  
PR 30-JAN-2001; 2001WO-US000666.  
PR 30-JAN-2001; 2001WO-US000667.  
PR 30-JAN-2001; 2001WO-US000668.  
PR 30-JAN-2001; 2001WO-US000669.  
PR 30-JAN-2001; 2001WO-US000670.  
PR 05-FEB-2001; 2001US-0266860P.  
PR 25-MAY-2001; 2001US-00866108.  
XX  
PA (GUY/) GU Y.  
PA (JIY/) JI Y.  
PA (PENN/) PENN S G.  
PA (HANZ/) HANZEL D K.  
PA (RANK/) RANK D.  
PA (CHEN/) CHEN W.  
PA (SHAN/) SHANNON M E.  
XX  
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank D, Chen W, Shannon ME;  
PI WPI; 2004-533378/51.  
XX  
DR Novel myosin-like protein-1, useful for treating or preventing disorder  
XX associated with decreased expression or activity of human genome-derived  
PT myosin-like protein-1 such as disorder of heart and/or skeletal muscle  
PT function.  
PT  
XX Disclosure; SEQ ID NO 9345; 0pp; English.  
PS  
XX The invention relates to a novel polypeptide (I) comprising a sequence  
CC (SI) of myosin-like protein-1 (hGDMPLP-1) having 2568 amino acids fully  
CC defined in the specification, a fragment of at least 8 amino acids of  
CC (SI), 93% deviation from (SI) which are conservative substitutions, and  
CC 63% identity to (SI). A polypeptide of the invention acts as an agonist or  
CC antagonist of hGDMPLP-1, or as an inhibitor of hGDMPLP-1 activity. A  
CC pharmaceutical composition of the invention is useful for treating or  
CC preventing a disorder associated with decreased expression or activity of  
CC hGDMPLP-1, such as a disorder of heart and/or skeletal muscle function.  
CC The present sequence represents a 17-mer nucleotide, used in the  
CC invention for scanning the sequence represented in ACN63103  
XX  
SQ Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;  
Query Match 69.0%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 12;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 3 GTCTCCAGTCTCTCGT 19  
Db 17 GTCCCTCCAGCTCTCTCGT 1  
RESULT 14  
ACN72442/c  
ID ACN72442 standard; DNA; 17 BP.  
XX  
AC ACN72442;  
XX  
XX 02-DEC-2004 (first entry)  
XX  
XX Human GDMPLP-1 probe SEQ ID NO:9344.  
DE  
DE Human; ss; probe; myosin-like protein-1; hGDMPLP-1;  
KW hGDMPLP-1 agonist hGDMPLP antagonist; hGDMPLP inhibitor; heart disorder;  
KW skeletal muscle function.  
XX  
OS Homo sapiens.  
XX  
XX US2004137589-A1.  
XX  
PD 15-JUL-2004.  
XX



```

PF 26-NOV-2003; 2003US-00723361.
XX
PR 26-MAY-2000; 2000US-0207456P.
PR 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
PR 30-JAN-2001; 2001WO-US000661.
PR 30-JAN-2001; 2001WO-US000662.
PR 30-JAN-2001; 2001WO-US000663.
PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 05-FEB-2001; 2001WO-US000670.
PR 25-MAY-2001; 2001US-0266860P.
XX
XX 26-NOV-2003; 2003US-00723361.
XX
XX 26-MAY-2000; 2000US-0207456P.
XX 21-SEP-2000; 2000US-0234687P.
XX 27-SEP-2000; 2000US-0236359P.
XX 04-OCT-2000; 2000GB-00024263.
XX 30-JAN-2001; 2001WO-US000661.
XX 30-JAN-2001; 2001WO-US000662.
XX 30-JAN-2001; 2001WO-US000663.
XX 30-JAN-2001; 2001WO-US000664.
XX 30-JAN-2001; 2001WO-US000665.
XX 30-JAN-2001; 2001WO-US000666.
XX 30-JAN-2001; 2001WO-US000667.
XX 30-JAN-2001; 2001WO-US000668.
XX 30-JAN-2001; 2001WO-US000669.
XX 05-FEB-2001; 2001WO-US000670.
XX 25-MAY-2001; 2001US-0266860P.
XX
XX (GUY/) GU Y.
XX (JIY/) JI Y.
XX (PENN/) PENN S G.
XX (HANZ/) HANZEL D K.
XX (RANK/) RANK D.
XX (CHEN/) CHEN W.
XX (SHAN/) SHANNON M E.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank D, Chen W, Shannon ME;
XX WPI; 2004-533378/51.
XX
XX Novel myosin-like protein-1, useful for treating or preventing disorder
XX associated with decreased expression or activity of human genome-derived
XX myosin-like protein-1 such as disorder of heart and/or skeletal muscle
XX function.
XX
XX Disclosure; SEQ ID NO 9344; Opp; English.
XX
XX The invention relates to a novel polypeptide (I) comprising a sequence
XX (S1) of myosin-like protein-1 (hGDMLP-1) having 2568 amino acids fully
XX defined in the specification, a fragment of at least 8 amino acids of
XX (S1), 95% deviation from (S1) which are conservative substitutions, and
XX 65% identity to (S1). A polypeptide of the invention acts as a agonist or
XX antagonist of hGDMLP-1, or as an inhibitor of hGDMLP-1 activity. A
XX pharmaceutical composition of the invention is useful for treating or
XX preventing a disorder associated with decreased expression or activity of
XX hGDMLP-1, such as a disorder of heart and/or skeletal muscle function.
XX The present sequence represents a 17-mer nucleotide, used in the
XX invention for scanning the sequence represented in ACN63103
XX
XX Sequence 17 BP; 6 A; 2 C; 8 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 69.0%; Score 13.8; DB 1; Length 17;
XX Best Local Similarity 88.2%; Pred. No. 12;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
Qy 4 TCTCCAGTCTCTTCGTT 20
Db 17 TCCCCAGCCTCTTCGTT 1
XX
XX RESULT 15
XX ACN72444/c
XX ID ACN72444 standard; DNA; 17 BP.
XX
XX AC ACN72444;
XX
XX 02-DEC-2004 (first entry)
XX
XX Human GDMLP-1 probe SEQ ID NO:9346.
XX
XX Human; ss; probe; myosin-like protein-1; hGDMLP-1;
XX hGDMLP-1 agonist hGDMLP antagonist; hGDMLP inhibitor; heart disorder;
KW

```

KW skeletal muscle function.

XX Homo sapiens.

XX US2004137589-A1.

XX 15-JUL-2004.

XX 26-NOV-2003; 2003US-00723361.

XX 26-MAY-2000; 2000US-0207456P.

XX 21-SEP-2000; 2000US-0234687P.

XX 27-SEP-2000; 2000US-0236359P.

XX 04-OCT-2000; 2000GB-00024263.

XX 30-JAN-2001; 2001WO-US000661.

XX 30-JAN-2001; 2001WO-US000662.

XX 30-JAN-2001; 2001WO-US000663.

XX 30-JAN-2001; 2001WO-US000664.

XX 30-JAN-2001; 2001WO-US000665.

XX 30-JAN-2001; 2001WO-US000666.

XX 30-JAN-2001; 2001WO-US000667.

XX 30-JAN-2001; 2001WO-US000668.

XX 30-JAN-2001; 2001WO-US000669.

XX 05-FEB-2001; 2001WO-US000670.

XX 25-MAY-2001; 2001US-00866108.

XX (GUY/) GU Y.

XX (JIY/) JI Y.

XX (PENN/) PENN S G.

XX (HANZ/) HANZEL D K.

XX (RANK/) RANK D.

XX (CHEN/) CHEN W.

XX (SHAN/) SHANNON M E.

XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank D, Chen W, Shannon ME;

XX WPI; 2004-533378/51.

XX Novel myosin-like protein-1, useful for treating or preventing disorder

XX associated with decreased expression or activity of human genome-derived

XX myosin-like protein-1 such as disorder of heart and/or skeletal muscle

XX function.

XX Disclosure; SEQ ID NO 9346; Opp; English.

XX The invention relates to a novel polypeptide (I) comprising a sequence

XX (S1) of myosin-like protein-1 (hGDMLP-1) having 2568 amino acids fully

XX defined in the specification, a fragment of at least 8 amino acids of

XX (S1), 95% deviation from (S1) which are conservative substitutions, and

XX 65% identity to (S1). A polypeptide of the invention acts as a agonist or

XX antagonist of hGDMLP-1, or as an inhibitor of hGDMLP-1 activity. A

XX pharmaceutical composition of the invention is useful for treating or

XX preventing a disorder associated with decreased expression or activity of

XX hGDMLP-1, such as a disorder of heart and/or skeletal muscle function.

XX The present sequence represents a 17-mer nucleotide, used in the

XX invention for scanning the sequence represented in ACN63103

XX

XX Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;

XX

XX Query Match 69.0%; Score 13.8; DB 1; Length 17;

XX Best Local Similarity 88.2%; Pred. No. 12;

XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

XX

Qy 2 TGTCTCCAGTCTCTTCG 18

Db 17 TGTCTCCAGTCTCTTCG 1

XX

XX RESULT 16

XX ABF03676/c

XX ID ABF03676 standard; DNA; 13 BP.

XX

AC	ABF03676;
XX	
XX	21-FEB-2002 (first entry)
DE	Oligonucleotide SEQ ID NO 103673 for detecting SNP TSC0025934.
XX	
XX	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW	central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS	Homo sapiens.
XX	
PN	WO200177384-A2.
XX	
PD	18-OCT-2001.
XX	
PF	06-APR-2001; 2001WO-IB000713.
PR	
XX	(EPIG-) EPIGENOMICS AG.
PA	
PI	Olek A, Piepenbrock C, Berlin K;
XX	
DR	WFI; 2001-657177/75.
XX	
PT	Set of oligonucleotides, useful for diagnosis and cell typing, is
PT	designed to detect single-nucleotide polymorphisms and cytosine
PT	methylation status.
XX	
PS	Claim 1; SEQ ID NO 103674; 29pp + Sequence Listing; German.
XX	
CC	This invention describes novel oligonucleotide primers or peptide nucleic
CC	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC	and cytosine methylation status in chemically pretreated genomic DNA. The
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	range of diseases including immune system, gastrointestinal, respiratory,
CC	central nervous system, cardiovascular and metabolic disorders. The
CC	oligomers are also used for detecting cell type differentiation. ABC00010
CC	-ABC9989, ABF0010-ABF9989, ABH0010-ABH9989 and ABI0010-ABI82073
CC	represent the oligomers described in the invention. NOTE: The sequence
CC	data for this patent did not form part of the printed specification, but
CC	was obtained in electronic format from WIPO at
CC	ftp.wipo.int/pub/published_pct_sequences
XX	
PS	Claim 1; SEQ ID NO 103673; 29pp + Sequence Listing; German.
XX	
CC	This invention describes novel oligonucleotide primers or peptide nucleic
CC	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC	and cytosine methylation status in chemically pretreated genomic DNA. The
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	range of diseases including immune system, gastrointestinal, respiratory,
CC	central nervous system, cardiovascular and metabolic disorders. The
CC	oligomers are also used for detecting cell type differentiation. ABC00010
CC	-ABC9989, ABF0010-ABF9989, ABH0010-ABH9989 and ABI0010-ABI82073
CC	represent the oligomers described in the invention. NOTE: The sequence
CC	data for this patent did not form part of the printed specification, but
CC	was obtained in electronic format from WIPO at
CC	ftp.wipo.int/pub/published_pct_sequences
XX	
SQ	Sequence 13 BP; 5 A; 1 C; 6 G; 1 T; 0 U; 0 Other;
	Query Match 52.0%; Score 10.4; DB 1; Length 13;
	Best Local Similarity 91.7%; Pred. No. 27;
	Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY	4 TCTCCAGTCTCT 15
Db	13 TCTCCGCTCT 2
	RESULT 17
ABF03677	
ID	ABF03677 standard; DNA; 13 BP.
XX	
AC	ABF03677;
XX	
DT	21-FEB-2002 (first entry)
XX	
DE	Oligonucleotide SEQ ID NO 103674 for detecting SNP TSC0025934.
XX	
XX	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW	central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS	Homo sapiens.
XX	
PN	WO200177384-A2.
XX	

XX	18-OCT-2001.
PD	
XX	
PF	06-APR-2001; 2001WO-IB000713.
XX	
PR	07-APR-2000; 2000DE-01019173.
XX	
PA	(EPIG-) EPIGENOMICS AG.
XX	
PI	Olek A, Piepenbrock C, Berlin K;
XX	
DR	WFI; 2001-657177/75.
XX	
PT	Set of oligonucleotides, useful for diagnosis and cell typing, is
PT	designed to detect single-nucleotide polymorphisms and cytosine
PT	methylation status.
XX	
PS	Claim 1; SEQ ID NO 103674; 29pp + Sequence Listing; German.
XX	
CC	This invention describes novel oligonucleotide primers or peptide nucleic
CC	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC	and cytosine methylation status in chemically pretreated genomic DNA. The
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	range of diseases including immune system, gastrointestinal, respiratory,
CC	central nervous system, cardiovascular and metabolic disorders. The
CC	oligomers are also used for detecting cell type differentiation. ABC00010
CC	-ABC9989, ABF0010-ABF9989, ABH0010-ABH9989 and ABI0010-ABI82073
CC	represent the oligomers described in the invention. NOTE: The sequence
CC	data for this patent did not form part of the printed specification, but
CC	was obtained in electronic format from WIPO at
CC	ftp.wipo.int/pub/published_pct_sequences
XX	
SQ	Sequence 13 BP; 1 A; 6 C; 1 G; 5 T; 0 U; 0 Other;
	Query Match 52.0%; Score 10.4; DB 1; Length 13;
	Best Local Similarity 91.7%; Pred. No. 27;
	Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY	4 TCTCCAGTCTCT 15
Db	1 TCTCCGCTCT 12
	RESULT 18
ABV64201/c	
ID	ABV64201 standard; cDNA; 11 BP.
XX	
AC	ABV64201;
XX	
DT	21-OCT-2002 (first entry)
XX	
DE	Human skin EST 1987.
XX	
KW	Human; skin; dermatological; vulnery; antipsoriatic; antieborrhaec;
KW	immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW	psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
OS	Homo sapiens.
XX	
PN	WO200253774-A2.
XX	
PD	11-JUL-2002.
XX	
PF	20-DEC-2001; 2001WO-EP015179.
XX	
PR	03-JAN-2001; 2001DE-01000127.
XX	
PA	(HENK ) HENKEL KGAA.
XX	
PI	Petersohn D, Conradt M, Hofmann K;
XX	
DR	WFI; 2002-590638/63.
XX	

PT In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.

PS Disclosure; Page 80; 1345pp; German.

XX The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention

XX Sequence 11 BP; 3 A; 1 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 11;  
 Best Local Similarity 90.9%; Pred. No. 30;  
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 CCAGTCTCTTC 17  
 Db 11 CCAGCCTCTTC 1

#### RESULT 19

ABV71622/C  
 ID ABV71622 standard; cDNA; 11 BP.

XX AC ABV71622;

XX DT 21-OCT-2002 (first entry)

XX DE Human skin EST 9408.

XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaeic;  
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX OS Homo sapiens.

XX PN WO200253774-A2.

XX PD 11-JUL-2002.

XX PF 20-DEC-2001; 2001WO-EP015179.

XX PR 03-JAN-2001; 2001DE-01000127.

XX PA (HENK ) HENKEL KGAA.

XX PI Petersohn D, Conradt M, Hofmann K;

XX WPI; 2002-590638/63.

XX In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.

XX Claim 24; Page 303; 1345pp; German.

XX The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin

CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention

XX Sequence 11 BP; 3 A; 1 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 11;  
 Best Local Similarity 90.9%; Pred. No. 30;  
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 CCAGTCTCTTC 17  
 Db 11 CCAGCCTCTTC 1

#### RESULT 20

ADQ33489/C  
 ID ADQ33489 standard; DNA; 11 BP.

XX AC ADQ33489;

XX DT 23-SEP-2004 (first entry)

XX DE Human facial skin-associated DNA fragment SEQ ID NO 1579.

XX facial skin; human; serial analysis of gene expression; SAGE;  
 KW homeostasis; biochip; cosmetic; pharmaceutical; ds.

XX OS Homo sapiens.

XX PN DE10260928-A1.

XX PD 08-JUL-2004.

XX PF 20-DEC-2002; 2002DE-01060928.

XX PR 20-DEC-2002; 2002DE-01060928.

XX PA (HENK ) HENKEL KGAA.

XX PI Petersohn D, Schlotmann K, Gassenmeier T, Holtkoetter O;  
 PI Conradt M, Hofmann K;

XX WPI; 2004-518855/50.

XX In vitro identification of genes important for facial skin, useful for  
 PT assessing homeostasis and in screening for pharmaceutical or cosmetic  
 PT agents, based on differential expression analysis.

XX Claim 5; SEQ ID NO 1579; 577pp; German.

XX This invention describes a novel in vitro method for identifying genes  
 CC that are significant for facial skin in humans. The method comprises  
 CC recovering, from facial skin, a first mixture of genetically expressed  
 CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or  
 CC their fragments), recovering a second, similar mixture from some other  
 CC human tissue, preferably skin from a protected area, especially from the  
 CC breast and subjecting the mixtures to serial analysis of gene expression  
 CC (SAGE) to identify those genes for which expression is markedly different  
 CC between facial skin and the other tissue. The invention also describes an  
 CC in vitro method for determining homeostasis of human facial skin; a test  
 CC kit which comprises a solid support (flexible or rigid) on which are  
 CC immobilised probes that bind specifically to the factors of interest and  
 CC a biochip for determining homeostasis of human facial skin. The products  
 CC of the invention are also used in a method which determines activity of  
 CC cosmetic and pharmaceutical agents for use against disorders or  
 CC disturbances of the homeostasis of human skin and a screening method for  
 CC identifying cosmetic and pharmaceutical agents. The method allows  
 CC identification of as many as possible of the genes important for facial  
 CC skin and thus of a very wide range of potential therapeutic and cosmetic  
 CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to

CC identify the facial skin-associated genes described in the invention.  
XX  
SQ Sequence 11 BP; 5 A; 1 C; 4 G; 1 T; 0 U; 0 Other;  
  
Query Match 47.0%; Score 9.4; DB 1; Length 11;  
Best Local Similarity 90.9%; Pred. No. 30;  
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
Qy 7 CCAGTCTCTTC 17  
Db 11 CCAGTTTCTTC 1  
  
RESULT 21  
ADQ32655/c  
ID ADQ32655 standard; DNA; 11 BP.  
XX AC  
XX ADQ32655;  
XX  
DT 23-SEP-2004 (first entry)  
XX  
DE Human facial skin-associated DNA fragment SEQ ID NO 745.  
XX  
XX facial skin; human; serial analysis of gene expression; SAGE;  
KW homeostasis; biochip; cosmetic; pharmaceutical; ds.  
XX  
XX Homo sapiens.  
XX  
XX DE10260928-A1.  
PN XX  
XX 08-JUL-2004.  
XX  
XX 20-DEC-2002; 2002DE-01060928.  
XX  
XX 20-DEC-2002; 2002DE-01060928.  
XX  
XX (HENKEL KGAA.  
XX  
XX Petersohn D, Schlottmann K, Gassenmeier T, Holtkoetter O;  
PI Conradt M, Hofmann K;  
PI  
XX WPI; 2004-518855/50.  
XX  
XX  
XX In vitro identification of genes important for facial skin, useful for  
PT assessing homeostasis and in screening for pharmaceutical or cosmetic  
PT agents, based on differential expression analysis.  
XX  
XX Claim 5; SEQ ID NO 745; 577bp; German.  
XX  
XX This invention describes a novel in vitro method for identifying genes  
CC that are significant for facial skin in humans. The method comprises  
CC recovering, from facial skin, a first mixture of genetically expressed  
CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or  
CC their fragments), recovering a second, similar mixture from some other  
CC human tissue, preferably skin from a protected area, especially from the  
CC breast and subjecting the mixtures to serial analysis of gene expression  
CC (SAGE) to identify those genes for which expression is markedly different  
CC between facial skin and the other tissue. The invention also describes an  
CC in vitro method for determining homeostasis of human facial skin; a test  
CC kit which comprises a solid support (flexible or rigid) on which are  
CC immobilised probes that bind specifically to the factors of interest and  
CC a biochip for determining homeostasis of human facial skin. The products  
CC of the invention are also used in a method which determines activity of  
CC cosmetic and pharmaceutical agents for use against disorders or  
CC disturbances of the homeostasis of human skin and a screening method for  
CC identifying cosmetic and pharmaceutical agents. The method allows  
CC identification of as many as possible of the genes important for facial  
CC skin and thus of a very wide range of potential therapeutic and cosmetic  
CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to  
CC identify the facial skin-associated genes described in the invention.  
XX  
SQ Sequence 11 BP; 5 A; 3 C; 2 G; 1 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 11;  
Best Local Similarity 90.9%; Pred. No. 30;  
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
  
Qy 1 TTGTCTCCAGT 11  
Db 11 TTGTCTGCACT 1  
  
RESULT 22  
AAZ81653  
ID AAZ81653 standard; DNA; 10 BP.  
XX XX  
XX AAZ81653;  
XX  
DT 07-APR-2000 (first entry)  
XX  
DE Metastatic breast tumour cell upregulated transcript tag #887.  
XX  
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
KW non-metastatic breast tumour tissue; gene therapy; anticancer;  
KW antimetastatic; vaccine; diagnosis; ss.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO9965928-A2.  
PN  
XX  
XX 23-DEC-1999.  
PD  
XX  
XX 18-JUN-1999; 99WO-US013647.  
PF  
XX  
XX 19-JUN-1998; 98US-0089853P.  
PR  
XX 19-JUN-1998; 98US-0089997P.  
PR  
XX 19-JUN-1998; 98US-0090039P.  
PR  
XX 19-JUN-1998; 98US-0090040P.  
PR  
XX 19-JUN-1998; 98US-0090041P.  
XX  
XX (GENZ ) GENZYME CORP.  
PA  
XX (ROBE/) ROBERTS B.L.  
PA  
XX (SHAN/) SHANKARA S.  
XX  
XX Roberts BL, Shankara S;  
PI  
XX WPI; 2000-106079/09.  
XX  
XX Isolated polynucleotides differentially expressed between metastatic and  
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and  
PT treatment of cancer.  
XX  
XX Claim 1; Page 82; 219pp; English.  
XX  
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts  
CC that are preferentially transcribed in the metastatic breast tumour  
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942  
CC to AAZ86677 represent tags corresponding to distinct transcripts that are  
CC preferentially transcribed in the primary or non-metastatic breast tumour  
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
CC transcripts can be used for diagnosis, prognosis, monitoring and  
CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
CC by standard immunoassays or hybridisation/amplification reactions.  
CC Compounds that modulate expression of the transcripts are potentially  
CC useful for treatment of (metastatic) breast cancer, while promoters from  
CC the transcripts are used to direct expression, in selected cell types, of  
CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
CC particularly an antigen-encoding sequence for use in gene or cell-based  
CC vaccines. Polypeptides encoded by the transcripts are also useful in  
CC vaccines; for diagnosing breast cancer and for raising specific  
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
CC agents. Host cells that produce the polypeptides can be used to expand  
CC and isolate populations of educated, antigen-specific immune effector  
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
CC immunotherapy  
XX

SQ Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;  
 Query Match 45.0%; Score 9; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 31;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 TCCAGTCTTC 14  
 |||||  
 Db 2 TCCAGTCTTC 10

RESULT 23  
 AAF42075  
 ID AAF42075 standard; DNA; 10 BP.  
 XX AC AAF42075;  
 DT 23-MAR-2001 (first entry)  
 XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8814.  
 DE Yeast; Saccharomyces cerevisiae; Characterisation; cell cycle; NORF;  
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KW serial analysis of gene expression; antifungal; tag; identification;  
 KW linker; PCR primer; ds.  
 XX Saccharomyces cerevisiae.  
 OS  
 XX WO200077214-A2.  
 XX 21-DEC-2000.  
 XX 14-JUN-2000; 2000WO-US016223.  
 XX 16-JUN-1999; 99US-00335032.  
 XX (UYJO ) UNIV JOHNS HOPKINS.  
 XX Velulescu V, Vogelstein B, Kinzler K;  
 XX WPI; 2001-061874/07.  
 XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.  
 XX Example; Page 314; 419pp; English.

CC The present invention describes an isolated DNA molecule comprising a  
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
 CC previously assigned open reading frame; or nonannotated ORF) genes  
 CC comprising a SAGE (serial analysis of gene expression) tag. Also  
 CC described are: (1) a method (M1) of using NORF genes to affect the cell  
 CC cycle comprising administering a NORF gene whose expression varies by at  
 CC least 10% between any two phases of the cell cycle selected from log  
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
 CC cell; and (b) monitoring expression of a NORF gene whose expression  
 CC varies as in M1, where a test substance which modifies the expression of  
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
 CC identifying human genes which are involved in cell cycle progression  
 CC comprising contacting human DNA with a probe which comprises at least 10  
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
 CC and (4) a method (M4) for identifying a candidate drug as a member of a  
 CC class of drugs having a characteristic effect on gene expression in a  
 CC yeast cell comprising contacting a yeast cell with a candidate drug and  
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
 CC expression is affected by the class of drugs. The NORF genes may be used  
 CC to study, monitor and affect phases of the cell cycle, the differentially  
 CC expressed genes may be used as markers of phases of the cell cycle. The  
 CC methods may be used to identify candidate drugs which affect the cell  
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064  
 CC represent SAGE tags used in the exemplification of the present invention.

CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
 CC method, in the exemplification of the present invention  
 XX Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;  
 SQ Query Match 45.0%; Score 9; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 31;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 AGTCTCTTC 17  
 |||||  
 Db 2 AGTCTCTTC 10

RESULT 24  
 ADU19570/c  
 ID ADU19570 standard; DNA; 10 BP.  
 XX AC ADU19570;  
 DT 13-JAN-2005 (first entry)  
 XX Hypoxia-related tumorigenesis-related SAGE tag #1361.  
 DE screening; hypoxia-related tumorigenesis;  
 KW hypoxia-induced gene regulation; tumour; SAGE tag; ds.  
 XX Unidentified.  
 OS  
 XX WO2004092198-A2.  
 XX 28-OCT-2004.  
 XX 09-APR-2004; 2004WO-US011087.  
 XX 09-APR-2003; 2003US-0461712P.  
 XX (GENZ ) GENZYME CORP.  
 XX Nacht M;  
 XX WPI; 2004-758333/74.  
 XX Identifying agents that alter biological activity of a polypeptide  
 PT encoded by a polynucleotide involved in hypoxia-related tumorigenesis  
 PT comprises contacting an agent with a target cell and monitoring activity  
 PT of expressed product.  
 XX Disclosure; Page 82; 100pp; English.

CC The invention comprises a method of screening for candidate agents  
 CC capable of altering the biological activity of a protein encoded by a  
 CC nucleotide involved in hypoxia-related tumorigenesis. The method of the  
 CC invention involves: contacting a test agent with a target cell expressing  
 CC the nucleotide, and monitoring the activity of the expressed protein  
 CC product; if the test agent modifies the activity of the expressed protein  
 CC then this is a candidate agent. The method of the invention is useful for  
 CC modifying hypoxia-induced gene regulation and for diagnosing, prognosing  
 CC or treating tumours. The present DNA sequence represents a SAGE tag that  
 CC was used in the exemplification of the invention.

XX Sequence 10 BP; 4 A; 1 C; 3 G; 2 T; 0 U; 0 Other;  
 SQ Query Match 45.0%; Score 9; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 31;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 AGTCTCTTC 17  
 |||||  
 Db 10 AGTCTCTTC 2

RESULT 25





```

Db          3 TGTCTCCAG 11
|||||
RESULT 30
ABV65400/c
ID ABV65400 standard; cDNA; 11 BP.
XX
AC ABV65400;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 3186.
XX
KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENK ) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 113; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 4 A; 1 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 9 AGTCTCTTC 17
|||||
Db 10 AGTCTCTTC 2
|||||
RESULT 31
ADG64354/c
ID ADG64354 standard; DNA; 11 BP.
XX
AC ADG64354;
XX
DT 11-MAR-2004 (first entry)
XX
DE DNA polymerase 3'-5' exonuclease domain related PCR primer SEQ ID NO:39.
thermostable DNA polymerase; thermoactive DNA polymerase;
3'-5' exonuclease domain; mutagenesis; genetic engineering;
genetic fingerprinting; forensic; cloning; infectious agent;
genetic disease; DNA polymerase; PCR primer; ss.
Synthetic.
EP1350841-A2.
08-OCT-2003.
31-MAR-2003; 2003EP-00006888.
02-APR-2002; 2002US-0369815P.
(HOFF ) ROCHE DIAGNOSTICS GMBH.
(HOFF ) HOFFMANN LA ROCHE & CO AG F.
Schoenbrunner NJ, Myers TW, Gelfland DH;
WPI; 2003-815070/77.
New thermostable or thermoactive DNA polymerases with attenuated 3'-5'
exonuclease activity, useful in polymerase chain reaction for in vitro
mutagenesis and engineering of DNA, or genetic fingerprinting of forensic
samples.
Example 1; SEQ ID NO 39; 80pp; English.
The present invention describes an isolated thermostable or thermoactive
DNA polymerase. The DNA polymerase comprises: (a) a 3'-5' exonuclease
domain which exhibits an attenuated 3'-5' exonuclease activity of about
6.5 or less, but greater than 0, u/pmol, measured using the Standard
Assay; or (b) a 3'-5' exonuclease domain, and having a 5'-3' polymerase
activity and an attenuated 3'-5' exonuclease activity, where the ratio of
the 5'-3' polymerase activity in u/pmol to the 3'-5' exonuclease activity
in u/pmol is about 100-1. The thermostable or thermoactive DNA
polymerases are useful in recombinant DNA techniques or polymerase chain
reaction for in vitro mutagenesis and engineering of DNA, genetic
fingerprinting of forensic samples, direct cloning from genomic DNA or
cDNA, assays for the presence of infectious agents, or parental diagnosis
of genetic disease. The DNA polymerase provides a significant improvement
over thermostable or thermoactive DNA polymerases of prior art. The
present DNA polymerases reduce degradation of primers as compared to wild
type thermostable or thermoactive DNA polymerases. The DNA polymerases
can be easily and efficiently expressed to a high level in a recombinant
expression system, which facilitates commercial production of the enzyme,
and they readily incorporate nucleoside triphosphate analogues, in
contrast to thermostable archaea proofreading DNA polymerase. The present
sequence is used in the exemplification of the present invention.
Sequence 11 BP; 5 A; 2 C; 4 G; 0 T; 0 U; 0 Other;
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 11 TCTCTTCGT 19
|||||
Db 11 TCTCTTCGT 3
|||||
RESULT 32
ADR36038/c
ID ADR36038 standard; DNA; 9 BP.
XX
AC ADR36038;
XX
DT 04-NOV-2004 (first entry)
XX
DE Human nicking agent DNA containing BstNBI restriction site #2458.
XX

```



KW ss; nicking agent; assay panel; diagnosis; expression pattern;  
 KW DNA fingerprinting; nosocomial infection; microbiological assay;  
 KW bacterial contamination; genome mapping; bioremediation.  
 XX Homo sapiens.  
 XX WO2004067765-A2.  
 XX 12-AUG-2004.  
 XX 29-JAN-2004; 2004WO-US002720.  
 XX 29-JAN-2003; 2003US-0443811P.  
 XX (KECK-) KECK GRADUATE INST.  
 XX Van Ness J, Galas DJ, Van Ness LK;  
 XX WPI; 2004-581010/56.  
 XX Identifying nucleic acid sample source, useful for identifying bacterial  
 PT strains involved in nosocomial infections, comprises treating the nucleic  
 PT acid sample with components comprising a nicking agent under nicking  
 PT conditions.  
 XX Example 3; Page 105-219; 238pp; English.  
 XX The invention relates to a method of treating a nucleic acid sample with  
 CC components under nicking conditions, where the components comprise a  
 CC nicking agent, and the conditions cause the nicking agent to nick the  
 CC nucleic acid sample to thus produce a family of initiating  
 CC oligonucleotide fragments, and subjecting one or more members of the  
 CC family of initiating oligonucleotide fragments to a characterization  
 CC assay panel of diagnostic oligonucleotides that can identify any organism  
 CC or individual. The method is useful for characterizing other DNA  
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.  
 CC The method, kit or composition is useful for identifying the source  
 CC of a nucleic acid sample e.g., bacterium, fungus, virus, plant,  
 CC non-human animal or human. The method is particularly useful for rapidly  
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species,  
 CC subspecies, and especially strains or individuals of the subspecies. It  
 CC is especially useful for identifying different bacterial strains involved  
 CC in e.g., nosocomial infections. Furthermore, the method is useful for  
 CC diagnosing bacterial disease in plants and humans, monitoring for  
 CC bacterial contamination, monitoring quality assurance/quality control of  
 CC laboratory tests involving microbiological assays, tracing bacterial  
 CC contamination and/or outbreaks of bacterial infections, genome mapping,  
 CC monitoring bioremediation sites, and for monitoring agricultural sites  
 CC for test crops, bacteria and recombinant molecules. Sequences ADR33581-  
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI  
 CC restriction site and used in the method of the invention.  
 XX Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;  
 SQ Query Match 43.0%; Score 8.6; DB 1; Length 9;  
 Best Local Similarity 88.9%; Pred. No. 2.5e+02;  
 Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
 Qy 8 CAGTCTCTT 16  
 Db |||||:|  
 9 CAGTCTSTT 1  
 RESULT 33  
 ADR36039/C  
 ID ADR36039 standard; DNA; 9 BP.  
 XX AC ADR36039;  
 XX DT 04-NOV-2004 (first entry)

XX Human nicking agent DNA containing BstNBI restriction site #2459.  
 DE ss; nicking agent; assay panel; diagnosis; expression pattern;  
 XX DNA fingerprinting; nosocomial infection; microbiological assay;  
 KW bacterial contamination; genome mapping; bioremediation.  
 KW Homo sapiens.  
 XX WO2004067765-A2.  
 XX 12-AUG-2004.  
 XX 29-JAN-2004; 2004WO-US002720.  
 XX 29-JAN-2003; 2003US-0443811P.  
 XX (KECK-) KECK GRADUATE INST.  
 XX Van Ness J, Galas DJ, Van Ness LK;  
 XX WPI; 2004-581010/56.  
 XX Identifying nucleic acid sample source, useful for identifying bacterial  
 PT strains involved in nosocomial infections, comprises treating the nucleic  
 PT acid sample with components comprising a nicking agent under nicking  
 PT conditions.  
 XX Example 3; Page 105-219; 238pp; English.  
 XX The invention relates to a method of treating a nucleic acid sample with  
 CC components under nicking conditions, where the components comprise a  
 CC nicking agent, and the conditions cause the nicking agent to nick the  
 CC nucleic acid sample to thus produce a family of initiating  
 CC oligonucleotide fragments, and subjecting one or more members of the  
 CC family of initiating oligonucleotide fragments to a characterization  
 CC assay panel of diagnostic oligonucleotides that can identify any organism  
 CC or individual. The method is useful for characterizing other DNA  
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.  
 CC The method, kit or composition is useful for identifying the source  
 CC of a nucleic acid sample e.g., bacterium, fungus, virus, plant,  
 CC non-human animal or human. The method is particularly useful for rapidly  
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species,  
 CC subspecies, and especially strains or individuals of the subspecies. It  
 CC is especially useful for identifying different bacterial strains involved  
 CC in e.g., nosocomial infections. Furthermore, the method is useful for  
 CC diagnosing bacterial disease in plants and humans, monitoring for  
 CC bacterial contamination, monitoring quality assurance/quality control of  
 CC laboratory tests involving microbiological assays, tracing bacterial  
 CC contamination and/or outbreaks of bacterial infections, genome mapping,  
 CC monitoring bioremediation sites, and for monitoring agricultural sites  
 CC for test crops, bacteria and recombinant molecules. Sequences ADR33581-  
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI  
 CC restriction site and used in the method of the invention.  
 XX Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;  
 SQ Query Match 43.0%; Score 8.6; DB 1; Length 9;  
 Best Local Similarity 88.9%; Pred. No. 2.5e+02;  
 Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
 Qy 8 CAGTCTCTT 16  
 Db |||||:|  
 9 CAGTCTSTT 1  
 RESULT 34  
 ADR36041/C  
 ID ADR36041 standard; DNA; 9 BP.  
 XX

AC ADR36041;  
 XX 04-NOV-2004 (first entry)  
 DE Human nicking agent DNA containing BstNBI restriction site #2461.  
 XX ss; nicking agent; assay panel; diagnosis; expression pattern;  
 KW DNA fingerprinting; nosocomial infection; microbiological assay;  
 KW bacterial contamination; genome mapping; bioremediation.  
 XX Homo sapiens.  
 OS  
 XX WO2004067765-A2.  
 XX 12-AUG-2004.  
 XX 29-JAN-2004; 2004WO-US002720.  
 PF  
 XX 29-JAN-2003; 2003US-0443811P.  
 PR  
 XX (KECK-) KECK GRADUATE INST.  
 XX  
 XX Van Ness J, Galas DJ, Van Ness LK;  
 XX WPI; 2004-581010/56.  
 DR  
 XX  
 XX Identifying nucleic acid sample source, useful for identifying bacterial  
 PT strains involved in nosocomial infections, comprises treating the nucleic  
 PT acid sample with components comprising a nicking agent under nicking  
 PT conditions.  
 XX  
 XX Example 3; Page 105-219; 238pp; English.  
 XX  
 CC The invention relates to a method of treating a nucleic acid sample with  
 CC components under nicking conditions, where the components comprise a  
 CC nicking agent, and the conditions cause the nicking agent to nick the  
 CC nucleic acid sample to thus produce a family of initiating  
 CC oligonucleotide fragments, and subjecting one or more members of the  
 CC family of initiating oligonucleotide fragments to a characterization  
 CC process to thus provide results. The method is useful for creating an  
 CC assay panel of diagnostic oligonucleotides that can identify any organism  
 CC or individual. The method is useful for characterizing other DNA  
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.  
 CC The method, kit or composition is useful for identifying the source  
 CC of a nucleic acid sample e.g., bacterium, fungus, virus, plant,  
 CC non-human animal or human. The method is particularly useful for rapidly  
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species,  
 CC subspecies, and especially strains or individuals of the subspecies. It  
 CC is especially useful for identifying different bacterial strains involved  
 CC in e.g., nosocomial infections. Furthermore, the method is useful for  
 CC diagnosing bacterial infections. Furthermore, the method is useful for  
 CC bacterial content and/or contamination in the environment, monitoring  
 CC food for bacterial contamination, monitoring manufacturing processes for  
 CC bacterial contamination, monitoring quality assurance/quality control of  
 CC laboratory tests involving microbiological assays, tracing bacterial  
 CC contamination and/or outbreaks of bacterial infections, genome mapping,  
 CC monitoring bioremediation sites, and for monitoring agricultural sites  
 CC for test crops, bacteria and recombinant molecules. Sequences ADR3581-  
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI  
 CC restriction site and used in the method of the invention.  
 XX  
 SQ Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;

Query Match 43.0%; Score 8.6; DB 1; Length 9;  
 Best Local Similarity 88.9%; Pred. No. 2.5e+02;  
 Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 8 CAGTCTCTT 16  
 |||||:|  
 Db 9 CAGTCTSTT 1

RESULT 35

ADR36040/c  
 ID ADR36040 standard; DNA; 9 BP.  
 XX  
 AC ADR36040;  
 XX  
 DT 04-NOV-2004 (first entry)  
 XX  
 DE Human nicking agent DNA containing BstNBI restriction site #2460.  
 XX ss; nicking agent; assay panel; diagnosis; expression pattern;  
 KW DNA fingerprinting; nosocomial infection; microbiological assay;  
 KW bacterial contamination; genome mapping; bioremediation.  
 XX Homo sapiens.  
 OS  
 XX WO2004067765-A2.  
 XX 12-AUG-2004.  
 XX 29-JAN-2004; 2004WO-US002720.  
 PF  
 XX 29-JAN-2003; 2003US-0443811P.  
 PR  
 XX (KECK-) KECK GRADUATE INST.  
 XX  
 XX Van Ness J, Galas DJ, Van Ness LK;  
 XX WPI; 2004-581010/56.  
 DR  
 XX Identifying nucleic acid sample source, useful for identifying bacterial  
 PT strains involved in nosocomial infections, comprises treating the nucleic  
 PT acid sample with components comprising a nicking agent under nicking  
 PT conditions.  
 XX  
 XX Example 3; Page 105-219; 238pp; English.  
 PS  
 XX The invention relates to a method of treating a nucleic acid sample with  
 CC components under nicking conditions, where the components comprise a  
 CC nicking agent, and the conditions cause the nicking agent to nick the  
 CC nucleic acid sample to thus produce a family of initiating  
 CC oligonucleotide fragments, and subjecting one or more members of the  
 CC family of initiating oligonucleotide fragments to a characterization  
 CC process to thus provide results. The method is useful for creating an  
 CC assay panel of diagnostic oligonucleotides that can identify any organism  
 CC or individual. The method is useful for characterizing other DNA  
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.  
 CC The method, kit or composition is useful for identifying the source  
 CC of a nucleic acid sample e.g., bacterium, fungus, virus, plant,  
 CC non-human animal or human. The method is particularly useful for rapidly  
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species,  
 CC subspecies, and especially strains or individuals of the subspecies. It  
 CC is especially useful for identifying different bacterial strains involved  
 CC in e.g., nosocomial infections. Furthermore, the method is useful for  
 CC diagnosing bacterial infections. Furthermore, the method is useful for  
 CC bacterial content and/or contamination in the environment, monitoring  
 CC food for bacterial contamination, monitoring manufacturing processes for  
 CC bacterial contamination, monitoring quality assurance/quality control of  
 CC laboratory tests involving microbiological assays, tracing bacterial  
 CC contamination and/or outbreaks of bacterial infections, genome mapping,  
 CC monitoring bioremediation sites, and for monitoring agricultural sites  
 CC for test crops, bacteria and recombinant molecules. Sequences ADR3581-  
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI  
 CC restriction site and used in the method of the invention.  
 XX  
 SQ Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;

Query Match 43.0%; Score 8.6; DB 1; Length 9;  
 Best Local Similarity 88.9%; Pred. No. 2.5e+02;  
 Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 8 CAGTCTCTT 16  
 |||||:|  
 Db 9 CAGTCTSTT 1

RESULT 36  
AAV05484  
ID AAV05484 standard; DNA; 10 BP.  
AC AAV05484;  
XX  
DT 01-MAY-1998 (first entry)  
XX  
DE BsmAI restriction recognition site.  
XX  
KW Amplification; nucleic acid sequence; SDA; recognition site;  
KW strand displacement amplification; restriction endonuclease;  
KW alpha-boronated deoxynucleoside triphosphate; Bsal;  
KW hemimodified restriction site; ds.  
XX  
OS Synthetic.  
XX  
EN US5702926-A.  
XX  
XX 30-DEC-1997.  
XX  
XX 22-AUG-1996; 96US-00701270.  
XX  
XX 22-AUG-1996; 96US-00701270.  
XX (BECT ) BECTON DICKINSON CO.  
XX Walker GT, Fraiser MS;  
XX WPI; 1998-076416/07.  
XX  
XX Strand displacement amplification of nucleic acids - using alpha-  
XX boronated deoxy:nucleoside tri:phosphate to create nickable restriction  
XX site.  
XX  
XX Disclosure; Col 6; 7pp; English.  
XX  
XX A novel method for amplifying a target nucleic acid sequence by strand  
XX displacement amplification (SDA) comprises, amplifying the target  
XX sequence in an SDA reaction in which an alpha-boronated deoxynucleoside  
XX triphosphate is incorporated into a double stranded recognition site for  
XX a restriction endonuclease, e.g. the present sequence. This produces a  
XX hemimodified restriction site that is nicked by the restriction  
XX endonuclease during the SDA reaction. Most alpha-boronated dNTP will  
XX mimic a corresponding alpha-thiolated dNTP in essentially all respects as  
XX regards SDA, though amplification efficiency is reduced in SDA reactions  
XX optimised for alpha-thiolated dNTP  
XX  
SQ Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;  
Query Match 42.0%; Score 8.4; DB 1; Length 10;  
Best Local Similarity 90.0%; Pred. No. 38;  
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Oy 3 GTCTCCAGTC 12  
Db 1 GTCTCCAATC 10  
RESULT 37  
AAZ78224/C  
ID AAZ78224 standard; DNA; 10 BP.  
XX  
XX AAZ78224;  
AC  
XX 10-APR-2000 (first entry)  
XX  
XX Human dendritic cell SAGE tag, SEQ ID NO:652.  
XX  
XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;  
KW APC; monocyte-derived dendritic cell; differential gene expression;

KW immunostimulatory cofactor; costimulatory factor; CTL;  
KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.  
XX  
OS Homo sapiens.  
XX  
FN WO9965924-A2.  
XX  
PD 23-DEC-1999.  
XX  
XX 18-JUN-1999; 99WO-US013800.  
XX  
XX 19-JUN-1998; 98US-0089833P.  
XX 19-JUN-1998; 98US-0089844P.  
PR 19-JUN-1998; 98US-0089853P.  
PR 19-JUN-1998; 98US-0089878P.  
PR 19-JUN-1998; 98US-008991P.  
PR 19-JUN-1998; 98US-008992P.  
PR 19-JUN-1998; 98US-008993P.  
PR 19-JUN-1998; 98US-008994P.  
PR 19-JUN-1998; 98US-008997P.  
PR 19-JUN-1998; 98US-008999P.  
PR 19-JUN-1998; 98US-009000P.  
PR 19-JUN-1998; 98US-009003P.  
PR 19-JUN-1998; 98US-009003P.  
PR 19-JUN-1998; 98US-009004P.  
PR 19-JUN-1998; 98US-009004P.  
PR 19-JUN-1998; 98US-009004P.  
PR 19-JUN-1998; 98US-009004P.  
PR 19-JUN-1998; 98US-009004P.  
PR 19-JUN-1998; 98US-009004P.  
PR 19-JUN-1998; 98US-009007P.  
PR 19-JUN-1998; 98US-009007P.  
PR 19-JUN-1998; 98US-009007P.  
PR 19-JUN-1998; 98US-009007P.  
PR 19-JUN-1998; 98US-009008P.  
PR 08-DEC-1998; 98US-0111715P.  
XX (GENZ ) GENZYME CORP.  
PA (ROBE/) ROBERTS B.L.  
PA (SHAN/) SHANKARA S.  
XX  
XX Roberts BL, Shankara S;  
XX WPI; 2000-106077/09.  
XX  
XX Isolated polynucleotides differentially expressed in antigen-presenting  
XX cells, useful in gene vaccines against cancer.  
XX  
XX Claim 1; Page 84; 130pp; English.  
XX  
XX Sequences AAZ77573-279709 represent SAGE (serial analysis of gene  
XX expression) tags used to identify mRNA transcripts encoding  
XX immunostimulatory cofactor proteins which are preferentially or  
XX differentially expressed in monocyte-derived dendritic cells compared  
XX with monocytes. Some of the transcripts correspond to known genes or ESTs  
XX (expressed sequence tags) which were previously unknown to be  
XX preferentially or differentially expressed in dendritic cells, while  
XX other transcripts correspond to novel genes. Antigen-presenting cell  
XX (APC)-associated costimulatory factors play an important role in the  
XX activation of the cytotoxic immune response, particularly against tumour  
XX cells. Tumour antigen presentation via the MHC (major histocompatibility  
XX complex) and subsequent recognition by T-cell receptors is alone  
XX insufficient to activate a robust cytotoxic immune response that can lyse  
XX the tumour cells, immunostimulatory cofactors also being required for  
XX efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid  
XX sequences identified using the SAGE tags have several potential uses.  
XX They may be used in vaccines to induce an immune response, particularly  
XX against a tumour antigen; to modulate the genotype of an APC; to screen  
XX for agents that modulate expression of differentially expressed genes in

CC an APC; and as hybridisation probes/amplification primers for the  
 CC diagnosis, prognosis and monitoring of diseases related to abnormal  
 CC expression of these genes. Detection of the dendritic cell differentially  
 CC expressed genes, or of their encoded proteins, can be used to identify  
 CC cells as belonging to the monocyte lineage. Cells containing these genes  
 CC can be used in active immunotherapy (or to stimulate production of a  
 CC population of antigen-specific effector cells) and vectors containing  
 CC them are used in gene therapy. Co-administration of tumour antigens and  
 CC APC-associated costimulatory factors ensures adequate antigen  
 CC presentation to endogenous APCs and upregulates the APCs for the  
 CC presentation of co-stimulatory signals, migration to T cell-rich sites,  
 CC secretion of T cell growth factors and secretion of chemokines for  
 CC recruitment of immune effector cells  
 XX  
 SQ Sequence 10 BP; 3 A; 3 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;  
 Best Local Similarity 90.0%; Pred. No. 38;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TGTCTCCAGT 11  
 Db ||| |||||  
 10 TGGCTCCAGT 1

## RESULT 38

AAZ82947/c  
 ID AAZ82947 standard; DNA; 10 BP.

XX AC AAZ82947;

XX XX 07-APR-2000 (first entry)

XX DE Metastatic breast tumour cell upregulated transcript tag #2181.

XX XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;  
 KW antimetastatic; vaccine; diagnosis; ss.

XX OS Homo sapiens.

XX XX WO9965928-A2.

XX XX 23-DEC-1999.

XX PF 18-JUN-1999; 99WO-US013647.

XX PR 19-JUN-1998; 98US-0089853P.

XX PR 19-JUN-1998; 98US-0089997P.

XX PR 19-JUN-1998; 98US-0090039P.

XX PR 19-JUN-1998; 98US-0090040P.

XX PR 19-JUN-1998; 98US-0090041P.

XX XX (GENZ ) GENZYME CORP.

PA (ROBE/) ROBERTS B L.

PA (SHAN/) SHANKARA S.

XX PI Roberts BL, Shankara S;

XX XX WPI; 2000-106079/09.

XX DR Isolated polynucleotides differentially expressed between metastatic and

XX PT non-metastatic breast cancer cells, useful for diagnosis, prevention and

XX PT treatment of cancer.

XX PS Claim 1; Page 118; 219pp; English.

XX XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts

XX CC that are preferentially transcribed in the metastatic breast tumour

XX CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942

XX CC preferentially transcribed in the primary or non-metastatic breast tumour

XX CC tissue (i.e. are downregulated in metastatic breast tumour cells). These

CC transcripts can be used for diagnosis, prognosis, monitoring and  
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
 CC by standard immunoassays or hybridisation/amplification reactions.  
 CC Compounds that modulate expression of the transcripts are potentially  
 CC useful for treatment of (metastatic) breast cancer, while promoters from  
 CC the transcripts are used to direct expression, in selected cell types, of  
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
 CC particularly an antigen-encoding sequence for use in gene or cell-based  
 CC vaccines. Polypeptides encoded by the transcripts are also useful in  
 CC vaccines; for diagnosing breast cancer and for raising specific  
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
 CC agents. Host cells that produce the polypeptides can be used to expand  
 CC and isolate populations of educated, antigen-specific immune effector  
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
 CC immunotherapy  
 XX

SQ Sequence 10 BP; 3 A; 2 C; 4 G; 1 T; 0 U; 0 Other;  
 Query Match 42.0%; Score 8.4; DB 1; Length 10;  
 Best Local Similarity 90.0%; Pred. No. 38;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCTCCAGTCT 13  
 Db |||||  
 10 TCTCCAGGCT 1

## RESULT 39

AAZ83008  
 ID AAZ83008 standard; DNA; 10 BP.

XX AC AAZ83008;

XX XX 07-APR-2000 (first entry)

XX DE Metastatic breast tumour cell upregulated transcript tag #2242.

XX XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;  
 KW antimetastatic; vaccine; diagnosis; ss.

XX OS Homo sapiens.

XX XX WO9965928-A2.

XX XX 23-DEC-1999.

XX PF 18-JUN-1999; 99WO-US013647.

XX PR 19-JUN-1998; 98US-0089853P.

XX PR 19-JUN-1998; 98US-0089997P.

XX PR 19-JUN-1998; 98US-0090039P.

XX PR 19-JUN-1998; 98US-0090040P.

XX PR 19-JUN-1998; 98US-0090041P.

XX XX (GENZ ) GENZYME CORP.

PA (ROBE/) ROBERTS B L.

PA (SHAN/) SHANKARA S.

XX PI Roberts BL, Shankara S;

XX XX WPI; 2000-106079/09.

XX DR Isolated polynucleotides differentially expressed between metastatic and

XX PT non-metastatic breast cancer cells, useful for diagnosis, prevention and

XX PT treatment of cancer.

XX PS Claim 1; Page 119; 219pp; English.

XX XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts

XX CC that are preferentially transcribed in the metastatic breast tumour

XX CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942

XX CC preferentially transcribed in the primary or non-metastatic breast tumour

XX CC tissue (i.e. are downregulated in metastatic breast tumour cells). These

CC preferentially transcribed in the primary or non-metastatic breast tumour  
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
 CC transcripts can be used for diagnosis, prognosis, monitoring and  
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
 CC by standard immunoassays or hybridisation/amplification reactions.  
 CC Compounds that modulate expression of the transcripts are potentially  
 CC useful for treatment of (metastatic) breast cancer, while promoters from  
 CC the transcripts are used to direct expression, in selected cell types, of  
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
 CC particularly an antigen-encoding sequence for use in gene or cell-based  
 CC vaccines. Polypeptides encoded by the transcripts are also useful in  
 CC vaccines; for diagnosing breast cancer and for raising specific  
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
 CC agents. Host cells that produce the polypeptides can be used to expand  
 CC and isolate populations of educated, antigen-specific immune effector  
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
 CC immunotherapy  
 XX  
 SQ Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;  
 Query Match 42.0%; Score 8.4; DB 1; Length 10;  
 Best Local Similarity 90.0%; Pred. No. 38;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 6 TCCAGTCTCT 15  
 Db 1 TCCAGGCTCT 10  
 RESULT 40  
 AAZ86119/c  
 ID AAZ86119 standard; DNA; 10 BP.  
 AC  
 AAZ86119;  
 XX  
 07-APR-2000 (first entry)  
 XX  
 DE Metastatic breast tumour cell downregulated transcript tag #5353.  
 DE Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;  
 KW antimetastatic; vaccine; diagnosis; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FN WO9965928-A2.  
 XX  
 PD 23-DEC-1999.  
 XX  
 PF 18-JUN-1999; 99WO-US013647.  
 XX  
 PR 19-JUN-1998; 98US-0089853P.  
 PR 19-JUN-1998; 98US-0089997P.  
 PR 19-JUN-1998; 98US-0090039P.  
 PR 19-JUN-1998; 98US-0090040P.  
 PR 19-JUN-1998; 98US-0090041P.  
 XX  
 PA (GENZ ) GENZYME CORP.  
 PA (ROBE/) ROBERTS B L.  
 PA (SHAN/) SHANKARA S.  
 XX  
 PI Roberts BL, Shankara S;  
 XX  
 XX WPI; 2000-106079/09.  
 XX  
 XX Isolated polynucleotides differentially expressed between metastatic and  
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and  
 PT treatment of cancer.  
 XX  
 XX Claim 1; Page 200; 219pp; English.  
 PS  
 XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts  
 CC that are preferentially transcribed in the metastatic breast tumour

CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942  
 CC to AAZ86677 represent tags corresponding to distinct transcripts that are  
 CC preferentially transcribed in the primary or non-metastatic breast tumour  
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
 CC transcripts can be used for diagnosis, prognosis, monitoring and  
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
 CC by standard immunoassays or hybridisation/amplification reactions.  
 CC Compounds that modulate expression of the transcripts are potentially  
 CC useful for treatment of (metastatic) breast cancer, while promoters from  
 CC the transcripts are used to direct expression, in selected cell types, of  
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
 CC particularly an antigen-encoding sequence for use in gene or cell-based  
 CC vaccines. Polypeptides encoded by the transcripts are also useful in  
 CC vaccines; for diagnosing breast cancer and for raising specific  
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
 CC agents. Host cells that produce the polypeptides can be used to expand  
 CC and isolate populations of educated, antigen-specific immune effector  
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
 CC immunotherapy  
 XX  
 SQ Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;  
 Query Match 42.0%; Score 8.4; DB 1; Length 10;  
 Best Local Similarity 90.0%; Pred. No. 38;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 5 CTCAGTCTCT 14  
 Db 10 CTCAGTCTCT 1  
 RESULT 41  
 AAAS04430/c  
 ID AAAS04430 standard; DNA; 10 BP.  
 AC  
 AAAS04430;  
 XX  
 07-SEP-2001 (first entry)  
 XX  
 DE Human DAXX DNA primer-extension oligonucleotide #17.  
 XX  
 KW Death-associated protein 6; DAXX; polymorphism; haplotype pair; human;  
 KW immune disorder; autoimmune disease; population diversity; ss;  
 KW paternity testing; anthropological lineage; forensic application;  
 KW primer-extension oligonucleotide.  
 XX  
 OS Homo sapiens.  
 XX  
 FN WO200125245-A2.  
 XX  
 PD 12-APR-2001.  
 XX  
 PR 05-OCT-2000; 2000WO-US027487.  
 XX  
 PR 06-OCT-1999; 99US-0157909P.  
 XX  
 PA (GENA-) GENAISSANCE PHARM INC.  
 XX  
 PI Chew A, Choi JY, Denton RR, Nandabalan K, Stephens JC;  
 XX  
 XX WPI; 2001-308220/32.  
 XX  
 XX New human death-associated protein 6 (DAXX) gene variants comprising 19  
 PT polymorphic sites useful in studying the effect of variation on the  
 PT biological activity of DAXX and in developing drugs targeting the  
 PT protein.  
 XX  
 PS Disclosure; Page 20; 97pp; English.  
 XX  
 CC Sequences AAAS04414-AAAS04451 represent primer-extension oligonucleotides  
 CC specific for a DNA encoding human death-associated protein 6 (DAXX). This  
 CC DNA may comprise one or more polymorphisms at specific nucleotide  
 CC positions to form one of nineteen possible polymorphic variants.

CC Associations between a trait and a genotype or a haplotype of the DAXX  
 CC gene can be identified by comparing the frequency of the genotype or  
 CC haplotype in a population exhibiting the trait with that of a reference  
 CC population. A higher frequency in the trait population indicates an  
 CC association. Methods involving genotyping or haplotyping of the DAXX gene  
 CC of an individual can lead to prediction of haplotype pairs for the DAXX  
 CC gene of related individuals, and may be useful in studying the expression  
 CC and biological function of DAXX, as well as in developing drugs targeting  
 CC this protein. Polymorphic variants of DAXX are useful in studying the  
 CC effect of the variation on the biological activity of DAXX as well as on  
 CC the binding affinity of candidate drugs targeting DAXX for the treatment  
 CC of autoimmune diseases and other immune disorders. Polymorphism is also  
 CC useful for studying population diversity, anthropological lineage,  
 CC paternity testing, forensic applications, and for identifying  
 CC associations between the DAXX genetic variation and a trait such as level  
 CC of drug response or susceptibility to disease. DAXX proteins may be used  
 CC to measure binding affinities of one or more candidate drugs targeting  
 CC the DAXX protein

XX  
 SQ Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;  
 Best Local Similarity 90.0%; Pred. No. 38;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 8 CAGTCTCTTC 17  
 Db | |||||  
 10 CGGCTCTTC 1

## RESULT 42

AAF38748/c  
 ID AAF38748 standard; DNA; 10 BP.

AC AAF38748;

XX 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5487.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KW serial analysis of gene expression; antifungal; tag; identification;  
 KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UYJO ) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.

XX Example; Page 196; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a  
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
 CC previously assigned open reading frame; or nonannotated ORF) genes  
 CC comprising a SAGE (serial analysis of gene expression) tag. Also  
 CC described are: (1) a method (M1) of using NORF genes to affect the cell  
 CC cycle comprising administering a NORF gene whose expression varies by at

CC least 10% between any two phases of the cell cycle selected from log  
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
 CC cell; and (b) monitoring expression of a NORF gene whose expression  
 CC varies as in M1, where a test substance which modifies the expression of  
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
 CC identifying human genes which are involved in cell cycle progression  
 CC comprising contacting human DNA with a probe which comprises at least 10  
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
 CC and (4) a method (M4) for identifying a candidate drug as a member of a  
 CC class of drugs having a characteristic effect on gene expression in a  
 CC yeast cell comprising contacting a yeast cell with a candidate drug and  
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
 CC expression is affected by the class of drugs. The NORF genes may be used  
 CC to study, monitor and affect phases of the cell cycle, the differentially  
 CC expressed genes may be used as markers of phases of the cell cycle. The  
 CC methods may be used to identify candidate drugs which affect the cell  
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064  
 CC represent SAGE tags used in the exemplification of the present invention.  
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
 CC method, in the exemplification of the present invention

XX  
 SQ Sequence 10 BP; 5 A; 1 C; 4 G; 0 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 38;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 11 TCCTCTCGTT 20

Db | |||||  
 10 TCCTCTCGTT 1

## RESULT 43

AAF42997  
 ID AAF42997 standard; DNA; 10 BP.

XX AAF42997;

XX 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:11136.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KW serial analysis of gene expression; antifungal; tag; identification;  
 KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UYJO ) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.

XX Example; Page 347; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a  
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
 CC previously assigned open reading frame; or nonannotated ORF) genes

CC comprising a SAGE (serial analysis of gene expression) tag. Also  
 CC described are: (1) a method (M1) of using NORF genes to affect the cell  
 CC cycle comprising administering a NORF gene whose expression varies by at  
 CC least 10% between any two phases of the cell cycle selected from log  
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
 CC cell; and (b) monitoring expression of a NORF gene whose expression  
 CC varies as in M1, where a test substance which modifies the expression of  
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
 CC identifying human genes which are involved in cell cycle progression  
 CC comprising nucleotides of a NORF gene whose expression varies as in M1;  
 CC and (4) a method (M4) for identifying a candidate drug as a member of a  
 CC class of drugs having a characteristic effect on gene expression in a  
 CC yeast cell comprising contacting a yeast cell with a candidate drug and  
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
 CC expression is affected by the class of drugs. The NORF genes may be used  
 CC to study, monitor and affect phases of the cell cycle, the differentially  
 CC expressed genes may be used as markers of phases of the cell cycle. The  
 CC methods may be used to identify candidate drugs which affect the cell  
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064  
 CC represent SAGE tags used in the exemplification of the present invention.  
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
 CC method, in the exemplification of the present invention

XX Sequence 10 BP; 0 A; 4 C; 1 G; 5 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;  
 Best Local Similarity 90.0%; Pred. No. 38;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 11 TCTCTTCGTT 20  
 |||||  
 Db 1 TCTCTTCGTT 10

## RESULT 44

AAF38731/c  
 ID AAF38731 standard; DNA; 10 BP.

XX AAF38731;

XX 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5470.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KW serial analysis of gene expression; antifungal; tag; identification;  
 KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UYJO ) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.

PS Example; Page 195; 419pp; English.

XX

CC The present invention describes an isolated DNA molecule comprising a  
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
 CC previously assigned open reading frame; or nonannotated ORF) genes  
 CC comprising a SAGE (serial analysis of gene expression) tag. Also  
 CC described are: (1) a method (M1) of using NORF genes to affect the cell  
 CC cycle comprising administering a NORF gene whose expression varies by at  
 CC least 10% between any two phases of the cell cycle selected from log  
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
 CC cell; and (b) monitoring expression of a NORF gene whose expression  
 CC varies as in M1, where a test substance which modifies the expression of  
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
 CC identifying human genes which are involved in cell cycle progression  
 CC comprising nucleotides of a NORF gene whose expression varies as in M1;  
 CC and (4) a method (M4) for identifying a candidate drug as a member of a  
 CC class of drugs having a characteristic effect on gene expression in a  
 CC yeast cell comprising contacting a yeast cell with a candidate drug and  
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
 CC expression is affected by the class of drugs. The NORF genes may be used  
 CC to study, monitor and affect phases of the cell cycle, the differentially  
 CC expressed genes may be used as markers of phases of the cell cycle. The  
 CC methods may be used to identify candidate drugs which affect the cell  
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064  
 CC represent SAGE tags used in the exemplification of the present invention.  
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
 CC method, in the exemplification of the present invention

XX Sequence 10 BP; 7 A; 1 C; 2 G; 0 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;  
 Best Local Similarity 90.0%; Pred. No. 38;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 11 TCTCTTCGTT 20  
 |||||  
 Db 10 TCTCTTCGTT 1

## RESULT 45

AAF33728/c

ID AAF33728 standard; DNA; 10 BP.

XX AAF33728;

XX 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:467.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KW serial analysis of gene expression; antifungal; tag; identification;  
 KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UYJO ) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.



XX Claim 1; Page 391; 419pp; English.

PS The present invention describes an isolated DNA molecule comprising a

XX coding sequence of a yeast gene selected from a group of 745 NORF (not

CC previously assigned open reading frame; or nonannotated ORF) genes

CC comprising a SAGE (serial analysis of gene expression) tag. Also

CC described are: (1) a method (M1) of using NORF genes to affect the cell

CC cycle comprising administering a NORF gene whose expression varies by at

CC least 10% between any two phases of the cell cycle selected from log

CC phase, S phase and G2/M; (2) a method (M2) for screening candidate

CC antifungal drugs comprising: (a) contacting a test substance with a yeast

CC cell; and (b) monitoring expression of a NORF gene whose expression

CC varies as in M1, where a test substance which modifies the expression of

CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for

CC identifying human genes which are involved in cell cycle progression

CC comprising contacting human DNA with a probe which comprises at least 10

CC contiguous nucleotides of a NORF gene whose expression varies as in M1;

CC yeast cell comprising contacting a yeast cell with a candidate drug and

CC monitoring expression in the yeast cell of at least 1 NORF gene whose

CC expression is affected by the class of drugs. The NORF genes may be used

CC to study, monitor and affect phases of the cell cycle, the differentially

CC expressed genes may be used as markers of phases of the cell cycle. The

CC methods may be used to identify candidate drugs which affect the cell

CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064

CC represent SAGE tags used in the exemplification of the present invention.

CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE

CC method, in the exemplification of the present invention

XX SQ Sequence 10 BP; 5 A; 0 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 38;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 CAGTCTCTTC 17

DB || || || || || || || ||

10 CATCTCTTC 1

RESULT 46

AAF34179

ID AAF34179 standard; DNA; 10 BP.

XX AAF34179;

XX 23-MAR-2001 (first entry)

DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:918.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;

KW nor previously assigned open reading frame; nonannotated ORF; SAGE;

KW serial analysis of gene expression; antifungal; tag; identification;

KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

OS WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UYJO ) UNIV JOHNS HOPKINS.

XX Velulescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX

PT Yeast gene coding sequences comprising NORF genes with serial analysis of

PT gene expression (SAGE) tags, useful for studying, monitoring and

PT affecting phases of the cell cycle.

XX Example; Page 32; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a

CC coding sequence of a yeast gene selected from a group of 745 NORF (not

CC previously assigned open reading frame; or nonannotated ORF) genes

CC comprising a SAGE (serial analysis of gene expression) tag. Also

CC described are: (1) a method (M1) of using NORF genes to affect the cell

CC cycle comprising administering a NORF gene whose expression varies by at

CC least 10% between any two phases of the cell cycle selected from log

CC phase, S phase and G2/M; (2) a method (M2) for screening candidate

CC antifungal drugs comprising: (a) contacting a test substance with a yeast

CC cell; and (b) monitoring expression of a NORF gene whose expression

CC varies as in M1, where a test substance which modifies the expression of

CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for

CC identifying human genes which are involved in cell cycle progression

CC comprising contacting human DNA with a probe which comprises at least 10

CC contiguous nucleotides of a NORF gene whose expression varies as in M1;

CC and (4) a method (M4) for identifying a candidate drug as a member of a

CC class of drugs having a characteristic effect on gene expression in a

CC yeast cell comprising contacting a yeast cell with a candidate drug and

CC monitoring expression in the yeast cell of at least 1 NORF gene whose

CC expression is affected by the class of drugs. The NORF genes may be used

CC to study, monitor and affect phases of the cell cycle, the differentially

CC expressed genes may be used as markers of phases of the cell cycle. The

CC methods may be used to identify candidate drugs which affect the cell

CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064

CC represent SAGE tags used in the exemplification of the present invention.

CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE

CC method, in the exemplification of the present invention

XX SQ Sequence 10 BP; 1 A; 3 C; 1 G; 5 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 38;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 TCCAGTCTCT 15

DB || || || || || || || ||

1 TCTAGTCTCT 10

RESULT 47

AAF39592/c

ID AAF39592 standard; DNA; 10 BP.

XX AAF39592;

XX 23-MAR-2001 (first entry)

DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6331.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;

KW nor previously assigned open reading frame; nonannotated ORF; SAGE;

KW serial analysis of gene expression; antifungal; tag; identification;

KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

OS WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UYJO ) UNIV JOHNS HOPKINS.

XX Velulescu V, Vogelstein B, Kinzler K;

XX



XX WPI; 2001-061874/07.  
XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
XX gene expression (SAGE) tags, useful for studying, monitoring and  
XX affecting phases of the cell cycle.  
XX Example; Page 226; 419pp; English.  
XX The present invention describes an isolated DNA molecule comprising a  
XX coding sequence of a yeast gene selected from a group of 745 NORF (not  
XX previously assigned open reading frame; or nonannotated ORF) genes  
XX comprising a SAGE (serial analysis of gene expression) tag. Also  
XX described are: (1) a method (M1) of using NORF genes to affect the cell  
XX cycle comprising administering a NORF gene whose expression varies by at  
XX least 10% between any two phases of the cell cycle selected from log  
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate  
XX antifungal drugs comprising: (a) contacting a test substance with a yeast  
XX cell; and (b) monitoring expression of a NORF gene whose expression  
XX varies as in M1, where a test substance which modifies the expression of  
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
XX identifying human genes which are involved in cell cycle progression  
XX comprising contacting human DNA with a probe which comprises at least 10  
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;  
XX and (4) a method (M4) for identifying a candidate drug as a member of a  
XX class of drugs having a characteristic effect on gene expression in a  
XX yeast cell comprising contacting a yeast cell with a candidate drug and  
XX monitoring expression in the yeast cell of at least 1 NORF gene whose  
XX expression is affected by the class of drugs. The NORF genes may be used  
XX to study, monitor and affect phases of the cell cycle, the differentially  
XX expressed genes may be used as markers of phases of the cell cycle. The  
XX methods may be used to identify candidate drugs which affect the cell  
XX cycle and for identification of antifungal drugs. AAF33268 to AAF44064  
XX represent SAGE tags used in the exemplification of the present invention.  
XX AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
XX method, in the exemplification of the present invention.  
XX Sequence 10 BP; 3 A; 1 C; 5 G; 1 T; 0 U; 0 Other;  
XX  
XX Query Match 42.0%; Score 8.4; DB 1; Length 10;  
XX Best Local Similarity 90.0%; Pred. No. 38;  
XX Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
XX  
XX QY 6 TCACGCTCTCT 15  
XX Db ||||| |||||  
XX 10 TCACGCTCTCT 1  
XX  
XX RESULT 48  
XX AAF38171  
XX AC AAF38171 standard; DNA; 10 BP.  
XX XX AAF38171;  
XX XX  
XX XX 23-MAR-2001 (first entry)  
XX XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4910.  
XX DE  
XX XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
XX nor previously assigned open reading frame; nonannotated ORF; SAGE;  
XX serial analysis of gene expression; antifungal; tag; identification;  
XX linker; PCR primer; ds.  
XX XX Saccharomyces cerevisiae.  
XX OS  
XX XX WO200077214-A2.  
XX PN  
XX XX 21-DEC-2000.  
XX PD  
XX XX 14-JUN-2000; 2000WO-US016223.  
XX PF  
XX XX 16-JUN-1999; 99US-00335032.  
XX PR  
XX XX

PA (UYJO ) UNIV JOHNS HOPKINS.  
PI Velculescu V, Vogelstein B, Kinzler K;  
XX WPI; 2001-061874/07.  
XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
XX gene expression (SAGE) tags, useful for studying, monitoring and  
XX affecting phases of the cell cycle.  
XX Example; Page 175; 419pp; English.  
XX The present invention describes an isolated DNA molecule comprising a  
XX coding sequence of a yeast gene selected from a group of 745 NORF (not  
XX previously assigned open reading frame; or nonannotated ORF) genes  
XX comprising a SAGE (serial analysis of gene expression) tag. Also  
XX described are: (1) a method (M1) of using NORF genes to affect the cell  
XX cycle comprising administering a NORF gene whose expression varies by at  
XX least 10% between any two phases of the cell cycle selected from log  
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate  
XX antifungal drugs comprising: (a) contacting a test substance with a yeast  
XX cell; and (b) monitoring expression of a NORF gene whose expression  
XX varies as in M1, where a test substance which modifies the expression of  
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
XX identifying human genes which are involved in cell cycle progression  
XX comprising contacting human DNA with a probe which comprises at least 10  
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;  
XX and (4) a method (M4) for identifying a candidate drug as a member of a  
XX class of drugs having a characteristic effect on gene expression in a  
XX yeast cell comprising contacting a yeast cell with a candidate drug and  
XX monitoring expression in the yeast cell of at least 1 NORF gene whose  
XX expression is affected by the class of drugs. The NORF genes may be used  
XX to study, monitor and affect phases of the cell cycle, the differentially  
XX expressed genes may be used as markers of phases of the cell cycle. The  
XX methods may be used to identify candidate drugs which affect the cell  
XX cycle and for identification of antifungal drugs. AAF33268 to AAF44064  
XX represent SAGE tags used in the exemplification of the present invention.  
XX AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
XX method, in the exemplification of the present invention.  
XX Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;  
XX  
XX Query Match 42.0%; Score 8.4; DB 1; Length 10;  
XX Best Local Similarity 90.0%; Pred. No. 38;  
XX Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
XX  
XX QY 4 TCTCCAGTCT 13  
XX Db ||||| |||||  
XX 1 TCCGCCAGTCT 10  
XX  
XX RESULT 49  
XX AAF39425/c  
XX ID AAF39425 standard; DNA; 10 BP.  
XX XX AAF39425;  
XX XX  
XX XX 23-MAR-2001 (first entry)  
XX XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6164.  
XX DE  
XX XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
XX nor previously assigned open reading frame; nonannotated ORF; SAGE;  
XX serial analysis of gene expression; antifungal; tag; identification;  
XX linker; PCR primer; ds.  
XX XX Saccharomyces cerevisiae.  
XX OS  
XX XX WO200077214-A2.  
XX PN  
XX XX 21-DEC-2000.  
XX PD  
XX XX 14-JUN-2000; 2000WO-US016223.  
XX PF  
XX XX

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XX 16-JUN-1999; 99US-00335032.
XX (UYJO ) UNIV JOHNS HOPKINS.
XX PA Velulescu V, Vogelstein B, Kinzler K;
XX PI WPI; 2001-061874/07.
XX DR
XX XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX Example; Page 220; 419pp; English.
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX SQ Sequence 10 BP; 4 A; 3 C; 2 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2 TGCTCCAGT 11
Db ||||| |||||
10 TGCTCCAGT 1
RESULT 50
AAF41789/c
ID AAF41789 standard; DNA; 10 BP.
XX AAF41789;
AC
XX 23-MAR-2001 (first entry)
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8528.
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX Saccharomyces cerevisiae.
XX WO200077214-A2.
XX

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PD 21-DEC-2000.
XX 14-JUN-2000; 2000WO-US016223.
XX 16-JUN-1999; 99US-00335032.
XX (UYJO ) UNIV JOHNS HOPKINS.
XX PA Velulescu V, Vogelstein B, Kinzler K;
XX PI WPI; 2001-061874/07.
XX DR
XX XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX Example; Page 304; 419pp; English.
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX SQ Sequence 10 BP; 4 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 8 CAGTCTCTTC 17
Db ||||| |||||
10 CAGTCTCTTC 1
RESULT 51
AAF34632/c
ID AAF34632 standard; DNA; 10 BP.
XX AAF34632;
AC
XX 23-MAR-2001 (first entry)
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:1371.
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX Saccharomyces cerevisiae.
XX

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XX PN W0200077214-A2.  
 XX PD 21-DEC-2000.  
 XX PF 14-JUN-2000; 2000WO-US016223.  
 XX PR 16-JUN-1999; 99US-00335032.  
 XX PA (UYJO ) UNIV JOHNS HOPKINS.  
 XX PI Velculescu V, Vogelstein B, Kinzler K;  
 XX PF Velculescu V, Vogelstein B, Kinzler K;  
 XX PF WPI; 2001-061874/07.  
 XX PT Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.  
 PS Example; Page 49; 419pp; English.  
 XX The present invention describes an isolated DNA molecule comprising a  
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
 CC previously assigned open reading frame; or nonannotated ORF) genes  
 CC comprising a SAGE (serial analysis of gene expression) tag. Also  
 CC described are: (1) a method (M1) of using NORF genes to affect the cell  
 CC cycle comprising administering a NORF gene whose expression varies by at  
 CC least 10% between any two phases of the cell cycle selected from log  
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
 CC cell; and (b) monitoring expression of a NORF gene whose expression  
 CC varies as in M1, where a test substance which modifies the expression of  
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
 CC identifying human genes which are involved in cell cycle progression  
 CC comprising contacting human DNA with a probe which comprises at least 10  
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
 CC and (4) a method (M4) for identifying a candidate drug as a member of a  
 CC class of drugs having a characteristic effect on gene expression in a  
 CC yeast cell comprising contacting a yeast cell with a candidate drug and  
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
 CC expression is affected by the class of drugs. The NORF genes may be used  
 CC to study, monitor and affect phases of the cell cycle, the differentially  
 CC expressed genes may be used as markers of phases of the cell cycle. The  
 CC methods may be used to identify candidate drugs which affect the cell  
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064  
 CC represent SAGE tags used in the exemplification of the present invention.  
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
 CC method, in the exemplification of the present invention  
 XX Sequence 10 BP; 5 A; 0 C; 4 G; 1 T; 0 U; 0 Other;  
 Query Match 42.0%; Score 8.4; DB 1; Length 10;  
 Best Local Similarity 90.0%; Pred. No. 38;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 8 CAGTCTCTTC 17  
 Db 10 CATTCTCTTC 1  
 RESULT 52  
 ID AAS98827/c  
 XX AAS98827 standard; DNA; 10 BP.  
 XX AC AAS98827;  
 XX DT 26-MAR-2002 (first entry)  
 XX DE Colony stimulating factor 1 receptor (CSF1R) oligonucleotide #193.  
 XX KW Colony stimulating factor 1 receptor; CSF1R; polymorphic variant;  
 KW cytostatic; gene therapy; malignant histiocytosis; isogene;  
 KW myeloid malignancy; inflammatory disorder; transgenic animal; haplotype;  
 genotype; human; allele specific oligonucleotide; ASO; primer;  
 primer extension; ss.  
 OS Homo sapiens.  
 PN W0200179225-A2.  
 XX PD 25-OCT-2001.  
 XX PF 12-APR-2001; 2001WO-US012044.  
 XX PR 12-APR-2000; 2000US-0196411P.  
 XX PA (GENA-) GENAISSANCE PHARM INC.  
 XX PI Chew A, Choi JY, Koshy B;  
 XX PF WPI; 2002-075058/10.  
 XX PT Novel polymorphic variants of colony stimulating factor 1 receptor useful  
 PT in studying expression and function of the protein, useful for screening  
 PT candidate drugs to treat diseases e.g. inflammatory disorders.  
 PS Claim 17; Page 17; 164pp; English.  
 XX The invention describes a novel isolated polynucleotide (I) comprising a  
 CC sequence which is a polymorphic variant (PV) of a reference sequence for  
 CC colony stimulating factor 1 receptor (CSF1R) gene, found on The  
 CC polypeptide are useful for improving the discovery and development of  
 CC drugs for treating diseases associated with CSF1R activity, e.g.,  
 CC malignant histiocytosis, myeloid malignancies, and inflammatory disorders  
 CC and the haplotypes can be used to validate CSF1R as a candidate target  
 CC for treating a specific condition or disease predicted to be associated  
 CC with CSF1R activity. Genotyping the CSF1R gene of an individual can also  
 CC be used in developing diagnostic tests and therapeutic treatments. (I) is  
 CC useful in studying the expression and function of CSF1R, and in  
 CC expressing CSF1R protein for use in screening for candidate drugs to  
 CC treat diseases related to CSF1R activity and in studying the effect of  
 CC the variation on the biological activity of CSF1R as well as on the  
 CC binding affinity of candidate drugs targeting CSF1R. Antibodies are  
 CC useful in a variety of diagnostic and prognostic formats and therapeutic  
 CC methods. A transgenic animal is useful in studying expression of the  
 CC CSF1R isogenes in vivo, for in vivo screening and testing of drugs  
 CC targeted against CSF1R protein, and for testing the efficacy of  
 CC therapeutic agents and compounds. Allele specific oligonucleotides (ASO)  
 CC are useful as probes and primers, and for assaying a polymorphism in the  
 CC target region. Without requiring any a priori knowledge of the phenotypic  
 CC effect of any particular CSF1R or haplotype the invention provides a  
 CC method for identifying lead compounds that are more likely to show  
 CC efficacy in clinical trials. This sequence is a primer used to detect  
 CC CSF1R gene polymorphisms by primer extension, described in the method of  
 CC the invention  
 XX Sequence 10 BP; 2 A; 3 C; 4 G; 1 T; 0 U; 0 Other;  
 Query Match 42.0%; Score 8.4; DB 1; Length 10;  
 Best Local Similarity 90.0%; Pred. No. 38;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 3 GTCTCCAGTC 12  
 Db 10 GTCTCCAGTC 1  
 RESULT 53  
 ID ACC41713/c  
 XX ACC41713 standard; DNA; 10 BP.  
 XX AC ACC41713;  
 XX DT 21-MAY-2003 (first entry)  
 XX DE Zinc finger protein DNA-binding domain target sequence SEQ ID NO:260.

XX zinc finger domain; zinc finger; zinc finger binding domain; probe;  
KW chimeric nucleic acid; library; PCR primer; ss.  
XX Synthetic.  
OS  
XX WO2003016571-A1.  
PN  
XX  
XX  
XX 27-FEB-2003.  
PD  
XX  
XX 17-AUG-2002; 2002WO-KR001560.  
PF  
XX  
XX 17-AUG-2001; 2001US-0313402P.  
PR  
XX 22-APR-2002; 2002US-0374355P.  
PR  
XX  
XX (TOOL-) TOOLGEN INC.  
PA  
XX  
XX Kim J, Bae K, Park K, Kwon Y, Ryu E, Hwang M;  
PI WPI; 2003-268344/26.  
PT New library comprising polypeptides having zinc finger domains, useful  
PT for producing chimeric nucleic acids.  
PS Claim 40; Page 105; 234pp; English.  
XX  
XX The present invention describes a library comprising polypeptides. Each  
CC polypeptide comprises a first or second zinc finger domain. The domains  
CC of each polypeptide are identical to a zinc finger domain from a  
CC naturally occurring protein and either do not occur in the same naturally  
CC occurring protein or occur in the same naturally occurring protein in a  
CC different configuration than in the polypeptide. The domains vary among  
CC polypeptides. Also described: (1) producing chimeric nucleic acids; (2)  
CC generating an artificial zinc finger polypeptide that specifically binds  
CC to a target DNA site; and (3) identifying a nucleic acid encoding a zinc  
CC finger polypeptide that specifically recognises a target DNA site. The  
CC library can be used for producing chimeric nucleic acids. ACC41551 to  
CC ACC41758 and ABR40919 to ABR41015 represent nucleotide and amino acid  
CC sequences given in the exemplification of the present invention  
XX  
SQ Sequence 10 BP; 5 A; 2 C; 2 G; 1 T; 0 U; 0 Other;  
Query Match 42.0%; Score 8.4; DB 1; Length 10;  
Best Local Similarity 90.0%; Pred. No. 38;  
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 9 AGTCTCTTCG 18  
DB |||||  
10 AGTCTCTTCG 1  
RESULT 54  
ADH69419  
ID ADH69419 standard; DNA; 10 BP.  
XX  
XX AC ADH69419;  
XX  
XX DT 25-MAR-2004 (first entry)  
XX  
XX Exon 4/5 junction #2of Blue pigment gene.  
XX  
XX Human; Blue pigment gene; retina specific gene; ds; cancer; infection;  
KW cytostatic; GAWTS; genomic amplification with transcript sequencing;  
KW RAWTS; RNA amplification with transcript sequencing; tRAWTS;  
KW tissue specific RAWTS; RAWIT;  
KW RNA amplification with in vitro translation; zoRAWTS; ASAWTS;  
KW adjacent sequence amplification with transcript sequencing; PASA;  
KW PCR amplification of specific alleles; PLATS;  
KW promoter ligation with transcript sequencing.  
XX  
OS Homo sapiens.  
XX  
PN US2003143553-A1.

XX 31-JUL-2003.  
XX  
XX 07-MAR-2002; 2002US-00094507.  
PF  
XX  
XX 28-JAN-1988; 88US-00149312.  
PR 24-JUL-1989; 89US-00385013.  
PR 12-NOV-1993; 93US-00151461.  
PR 27-DEC-1994; 94US-00399855.  
PR 22-FEB-2000; 2000US-00510177.  
XX  
XX (SOMM/) SOMMER S S.  
XX  
XX Sommer SS;  
PI  
XX  
XX WPI; 2003-730802/69.  
DR  
XX  
XX Amplifying a sequence of interest present within a nucleic acid molecule  
PT for monitoring the progression of cancer by obtaining a sample of the  
PT nucleic acid molecule and contacting the sample with an RNA polymerase.  
PT  
XX  
XX Disclosure; Fig 1B; 70pp; English.  
XX  
XX The invention relates to amplifying a sequence of interest present within  
CC a nucleic acid molecule comprising: obtaining a sample of the nucleic  
CC acid molecule that contains the sequence of interest; if the nucleic acid  
CC is a single-stranded RNA molecule, treating the sample so as to prepare a  
CC sample containing DNA molecule that contains a sequence complementary to  
CC the sequence of interest; treating the sample to obtain a further sample;  
CC contacting the further sample under hybridisation conditions with one  
CC oligonucleotide primer that includes at least a promoter and a nucleic  
CC acid present within the nucleic acid molecule, where the primer sequence  
CC is located adjacent to, and 5' of, the sequence of interest, so that the  
CC oligonucleotide primer hybridises with the single-stranded DNA molecule;  
CC treating the resulting sample containing the single stranded DNA molecule;  
CC to which the oligonucleotide primer is hybridised from step (4) with a  
CC polymerase under polymerizing conditions so that a DNA extension product  
CC of the oligonucleotide primer is synthesised and contains the sequence of  
CC interest; treating the sample from step (5) so as to separate the DNA  
CC extension product from the single-stranded DNA molecule on which it was  
CC synthesised; contacting the resulting sample from step (6) containing the  
CC sequence complementary to the sequence of interest under hybridisation  
CC conditions, with one oligonucleotide primer; treating the sample  
CC containing the single-stranded DNA molecule to which the oligonucleotide  
CC primer is hybridised from step (7) with a polymerase so as to synthesise  
CC a further DNA extension product; repeating steps (7)-(9), as desired;  
CC contacting the sample from step (10) with an RNA polymerase that  
CC initiates polymerization from the promoter present, under polymerising  
CC conditions, so as to obtain multiple RNA transcripts of each DNA  
CC extension product that contains the sequence complementary to the  
CC sequence of interest. The promoter is a phage promoter, which is T7, T3  
CC or SP6 promoter. The method (and its modifications detailed in the  
CC specification are known as GAWTS (genomic amplification with transcript  
CC sequencing), RAWTS (RNA amplification with transcript sequencing),  
CC tRAWTS (tissue specific RAWTS), RAWIT (RNA amplification with in vitro  
CC translation), zoRAWTS (sequencing homologous genes across species)  
CC ASAWTS (adjacent sequence amplification with transcript sequencing), PASA  
CC (PCR amplification of specific alleles) and PLATS (promoter ligation with  
CC transcript sequencing). The method is useful for amplifying a sequence of  
CC interest present within a nucleic acid molecule for monitoring the  
CC progression of cancer or the efficiency of treatment of cancer or for  
CC diagnosing and subtyping infectious agents. The present sequence is a  
CC human retina specific blue pigment gene exon 4/5 junction sequence  
CC analysed by the method of the invention.  
XX  
XX Sequence 10 BP; 1 A; 4 C; 1 G; 4 T; 0 U; 0 Other;  
SQ  
Query Match 42.0%; Score 8.4; DB 1; Length 10;  
Best Local Similarity 90.0%; Pred. No. 38;  
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 TTGCTCTCCAG 10  
||| |||||

Db 1 TTCTCTCAG 10

RESULT 55  
ADP47134/c  
ID ADP47134 standard; DNA; 10 BP.  
XX  
XX  
AC ADP47134;  
XX  
XX 09-SEP-2004 (first entry)  
XX  
XX Human phospholipase A2-specific mAb heavy chain DNA sequence #14.  
XX  
XX human; monoclonal antibody; phospholipase A2; PLA2;  
XX inflammatory disorder; degenerative disorder;  
XX joint inflammatory reaction; skin inflammatory reaction;  
XX blood vessels inflammatory reaction; arthritis; psoriasis; asthma;  
XX Alzheimer's disease; atherosclerosis; restenosis; heavy chain; ds.  
XX  
OS Homo sapiens.  
XX  
XX WO2004050850-A2.  
XX  
XX 17-JUN-2004.  
XX  
XX 02-DEC-2003; 2003WO-US038234.  
XX  
XX 02-DEC-2002; 2002US-0430724P.  
XX  
XX (ABGE-) ABGENIX INC.  
XX (LEXI-) LEXICON GENETICS INC.  
XX  
XX Landes GM, Haak-Frendscho M, Chen L, Lee YR, Liang ML, Feng X;  
XX Jia X, Nocerini MR;  
XX WPI; 2004-461119/43.  
XX  
XX New human monoclonal antibody that binds to phospholipase A2 (PLA2),  
XX useful for treating inflammatory conditions, e.g. arthritis, psoriasis,  
XX asthma, Alzheimer's disease, atherosclerosis, or restenosis.  
XX  
XX Example 5; SEQ ID NO 49; 128bp; English.  
XX  
XX The invention comprises a human monoclonal antibody that binds to  
XX phospholipase A2 (PLA2). The monoclonal antibody of the invention is  
XX useful in the preparation of a medicament for the treatment of  
XX inflammatory and degenerative disorders stemming from inflammatory  
XX reactions in the joints, skin, and blood vessels, arthritis, psoriasis,  
XX asthma, Alzheimer's disease, atherosclerosis, and restenosis. The present  
XX nucleic acid represents a human PLA2-specific monoclonal antibody heavy  
XX chain DNA sequence.  
XX  
SQ Sequence 10 BP; 3 A; 1 C; 5 G; 1 T; 0 U; 0 Other;  
Query Match 42.0%; Score 8.4; DB 1; Length 10;  
Best Local Similarity 90.0%; Pred. No. 38;  
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 6 TCACGTCTCT 15  
| | | | | | | | | | | | | | |  
Db 10 TCACGTCTCT 1  
| | | | | | | | | | | | | | |  
RESULT 56  
ADZ67944/c  
ID ADZ67944 standard; DNA; 10 BP.  
XX  
XX ADZ67944;  
XX  
XX 14-JUL-2005 (first entry)  
XX  
XX NTRK1 gene polymorphic site 8 primer extension oligonucleotide.  
XX

KW Neurotrophic tyrosine kinase receptor type 1; NTRK1; Alzheimer's disease;  
KW neurological disease; diagnosis; prognosis; primer; SNP detection;  
KW haplotype mapping; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO2005037204-A2.  
XX  
XX 28-APR-2005.  
XX  
XX 14-OCT-2004; 2004WO-US033689.  
XX  
XX 15-OCT-2003; 2003US-0511247P.  
XX  
XX (GENA-) GENAISSANCE PHARM.  
XX  
XX Aerssens J, Athanasiou M, Brain C, Cohen N, Dain B, Denton RR;  
XX Judson RS, Ozdemir V, Reed CR;  
XX WPI; 2005-322749/33.  
XX  
XX Determining whether individual has age of onset marker I or marker II, by  
XX determining whether individual has zero copies or copy of neurotrophic  
XX tyrosine kinase, receptor, type 1 haplotypes involved in onset of  
XX Alzheimer's disease.  
XX  
XX Disclosure; SEQ ID NO 42; 128pp; English.  
XX  
XX The inventors have discovered a set of 112 haplotypes in the human  
XX neurotrophic tyrosine kinase, receptor, type 1 (NTRK1) gene ADZ67903 that  
XX are associated with the age of onset of Alzheimer's disease (AD). They  
XX have also discovered that the copy number of each of these NTRK1  
XX haplotypes affects the age of onset of AD. If an individual has at least  
XX one copy of any of the 112 specified haplotypes, that individual is  
XX defined as having an 'age of onset marker I' and is more likely to have a  
XX later age of onset of AD than an individual having zero copies of any of  
XX the 112 haplotypes, such as an individual being defined as 'age of onset  
XX marker II'. Testing for the presence or absence, and copy number, of the  
XX haplotypes is useful for predicting the age at which individuals who are  
XX at increased risk of AD are likely to develop AD and to help confirm a  
XX diagnosis of mild or minimal cognitive impairment (MDI) or AD. Such  
XX knowledge will assist therapy and lifestyle decisions. The correlation of  
XX certain NTRK1 haplotypes with age of AD onset indicates that variation in  
XX the NTRK1 gene should be considered in the development and clinical  
XX trials of drugs for treating MCI, AD and other neurodegenerative  
XX disorders. This correlation also provides a basis for pursuing NTRK1 as a  
XX target for drugs designed to treat cognitive disorders such as MDI, AD  
XX and other neurological diseases or conditions. Information is provided  
XX about the composition of each of 112 haplotypes, namely the location in  
XX the NTRK1 gene of each of the polymorphic sites (PSs) and the identity of  
XX the reference and variant allele at each PS. An individual's genotype for  
XX the set of PSs is obtained by primer extension, allele-specific PCR,  
XX nucleic acid amplification, hybridization, mismatch detection, enzymatic  
XX nucleic acid cleavage or sequencing assay. The present sequence is that  
XX of a reverse primer extension oligonucleotide for detecting PS8 in  
XX haplotypes comprising preferred embodiments of age of onset markers I and  
XX II.  
SQ Sequence 10 BP; 2 A; 1 C; 6 G; 1 T; 0 U; 0 Other;  
Query Match 42.0%; Score 8.4; DB 1; Length 10;  
Best Local Similarity 90.0%; Pred. No. 38;  
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 5 CTCGAGTCTC 14  
| | | | | | | | | | | | | | |  
Db 10 CTCGAGTCTC 1  
| | | | | | | | | | | | | | |  
RESULT 57  
AEA62012/c  
ID AEA62012 standard; DNA; 10 BP.  
XX

AC AEA62012;  
XX  
DT 11-AUG-2005 (first entry)  
XX  
XX NTRK1 gene polymorphic site 8 primer extension oligonucleotide.  
DE  
XX NTRK1 gene; neurotrophic tyrosine kinase, receptor, type 1;  
KW Alzheimer's disease; degeneration; neurological disease;  
KW haplotype mapping; prognosis; primer; ss; SNP detection.  
XX  
OS Homo sapiens.  
XX  
XX WO2005052180-A2.  
PN  
XX  
XX 09-JUN-2005.  
PD  
XX  
XX 22-NOV-2004; 2004WO-US038876.  
PF  
XX  
XX 24-NOV-2003; 2003US-0524636P.  
PR  
XX  
XX (GENA-) GENAISSANCE PHARM INC.  
PA  
XX  
XX Aerssens J, Athanasiou M, Brain C, Cohen N, Dain B, Denton RR;  
PI Judson RS, Ozdemir V, Reed CR;  
PI  
XX  
XX WPI; 2005-418015/42.  
DR  
XX  
XX Determining whether an individual has a progression marker I or  
PT progression marker II, useful for predicting an individual's progression  
PT of Alzheimer's disease, by determining whether the individual has any of  
PT the NTRK1 haplotypes.  
XX  
XX Claim 40; SEQ ID NO 53; 108pp; English.  
PS  
XX  
XX The present invention relates to genetic markers of the human  
CC neurotrophic tyrosine kinase, receptor, type 1 (NTRK1) gene AEA61960 that  
CC are associated with progression of Alzheimer's disease (AD). 12  
CC Polymorphic sites (PSs) have been discovered in the NTRK1 gene of  
CC Caucasian individuals with AD, and a set of 70 haplotypes having  
CC association with progression of AD have been identified. If an individual  
CC has 0 or 1 copy of any of haplotypes 1-41 and 67-70, or 0 copies of any  
CC of haplotypes 42-66, then that individual is defined as having a  
CC progression marker I and is more likely to exhibit a slower progression  
CC of AD than an individual having 2 copies of any of haplotypes 1-41 and 67  
CC -70, or at least 1 copy of any of haplotypes 42-66, such an individual  
CC may be identified that are in linkage disequilibrium with any of  
CC haplotypes 1-70, referred to as linked haplotypes and substitute  
CC haplotypes of any of haplotypes 1-70, in which one or more of the PSs in  
CC the original haplotype is substituted with another PS, where the allele  
CC at the substituted PS is in linkage disequilibrium with the allele at the  
CC substituting PS. The invention provides methods and kits for determining  
CC whether an individual has a progression marker I or a progression marker  
CC II. A method is also provided for predicting an individual's progression  
CC of AD. The individual is especially a Caucasian diagnosed as having a  
CC cognitive disorder. An individual's genotype for each PS may be obtained  
CC by primer extension, allele-specific PCR, nucleic acid amplification,  
CC hybridization, mismatch-detection, enzymatic nucleic acid cleavage or  
CC sequencing assay. The present sequence is a reverse primer extension  
CC oligonucleotide that can be used to detect the allele at PS8 of the NTRK1  
CC gene. The 3' terminus of the oligonucleotide is complementary to the  
CC nucleotide located immediately adjacent to the PS. The oligonucleotide is  
CC included in a claimed kit of the invention used to determine whether an  
CC individual has a progression marker I or progression marker II.  
XX  
XX Sequence 10 BP; 2 A; 1 C; 6 G; 1 T; 0 U; 0 Other;  
SQ

Query Match 42.0%; Score 8.4; DB 1; Length 10;  
Best Local Similarity 90.0%; Pred. No. 38;  
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 5 CTCAGTCTC 14  
| | | | | | | |

Db 10 CCCAGTCTC 1  
RESULT 58  
AAT09601  
ID AAT09601 standard; DNA; 8 BP.  
XX  
XX AAT09601;  
AC  
XX  
XX 25-MAR-2003 (revised)  
DT 25-JUN-1996 (first entry)  
DT  
XX  
XX 3'-primer used for characterisation of human biological samples.  
DE  
XX  
XX 3'-primer; human; protein coding region; PCR primer kit;  
KW characterisation; biological samples; PCR amplification; indexing;  
KW identification; cloning; analysis; genes; genome mapping;  
KW disease diagnosis; ss.  
XX  
XX Synthetic.  
OS  
XX  
XX WO9531574-A1.  
PN  
XX  
XX 23-NOV-1995.  
PD  
XX  
XX 12-MAY-1995; 95WO-US006032.  
PF  
XX  
XX 16-MAY-1994; 94US-00242887.  
PR  
XX  
XX (SGHM ) BRIGHAM & WOMENS HOSPITAL.  
PA  
XX  
XX Lopeznieto CE, Nigam SK;  
PI  
XX  
XX WPI; 1996-010958/01.  
DR  
XX  
XX Characterisation of nucleotide sequences using primer pairs - by PCR  
PT amplification and indexing of amplification prods. w.r.t. primers used  
PT for genome mapping and disease diagnosis.  
PT  
XX  
XX Disclosure; Page 19; 72pp; English.  
PS  
XX  
XX The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which  
CC target human protein coding regions, together comprise a PCR primer kit  
CC with 1361 possible primer pairs. The kit is used in a new method for the  
CC characterisation of nucleic acid sequences obtd. from human biological  
CC samples, which comprises PCR amplification and indexing of the prods.  
CC w.r.t the primer pair that hybridised to its delineating subsequences.  
CC The method may be used in the identification, cloning and analysis of  
CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-  
CC 2003 to correct PI field.)  
XX  
XX Sequence 8 BP; 1 A; 3 C; 2 G; 2 T; 0 U; 0 Other;  
SQ

Query Match 40.0%; Score 8; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 3 GTCTCCAG 10  
| | | | | | | |  
Db 1 GTCTCCAG 8

RESULT 59  
AAT09436/C  
ID AAT09436 standard; DNA; 8 BP.  
XX  
XX AAT09436;  
AC  
XX  
XX 25-MAR-2003 (revised)  
DT 21-JUN-1996 (first entry)  
DT  
XX  
XX 5'-primer used for characterisation of human biological samples.  
DE  
XX

KW 5'-primer; human; protein coding region; PCR primer kit;  
 KW characterisation; biological samples; PCR amplification; indexing;  
 KW identification; cloning; analysis; genes; genome mapping;  
 KW disease diagnosis; ss.  
 XX Synthetic.  
 OS  
 PN W09531574-A1.  
 XX  
 XX 23-NOV-1995.  
 XX  
 XX 12-MAY-1995; 95WO-US006032.  
 PF  
 XX 16-MAY-1994; 94US-00242887.  
 PR  
 XX (BGHM ) BRIGHAM & WOMENS HOSPITAL.  
 PA  
 XX Lopeznielo CE, Nigam SK;  
 PI  
 XX WPI; 1996-010958/01.  
 DR  
 XX Characterisation of nucleotide sequences using primer pairs - by PCR  
 PT amplification and indexing of amplification prods. w.r.t. primers used  
 PT for genome mapping and disease diagnosis.  
 PT  
 XX Claim 5; Page 44; 72pp; English.  
 PS  
 XX The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which  
 CC target human protein coding regions, together comprise a PCR primer kit  
 CC with 1361 possible primer pairs. The kit is used in a new method for the  
 CC characterisation of nucleic acid sequences obtd. from human biological  
 CC samples, which comprises PCR amplification and indexing of the prods.  
 CC w.r.t the primer pair that hybridised to its delineating subsequences.  
 CC The method may be used in the identification, cloning and analysis of  
 CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-  
 CC 2003 to correct PI field.)  
 XX  
 XX Sequence 8 BP; 2 A; 2 C; 3 G; 1 T; 0 U; 0 Other;  
 SQ  
 Query Match 40.0%; Score 8; DB 1; Length 8;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 OY 3 GTCTCCAG 10  
 DB 8 GTCTCCAG 1  
 RESULT 60  
 AAA80951/c  
 ID AAA80951 standard; DNA; 8 BP.  
 XX  
 AC AAA80951;  
 XX  
 XX 24-NOV-2000 (first entry)  
 DT  
 XX A. thaliana primer walking octamer SEQ ID NO: 264.  
 DE  
 XX Primer walking; octamer; primer; DNA sequencing; PCR; ss.  
 KW Arabidopsis thaliana.  
 XX  
 OS Arabidopsis thaliana.  
 XX  
 XX US6083695-A.  
 PN  
 XX 04-JUL-2000.  
 PD  
 XX 21-MAY-1997; 97US-00859954.  
 XX  
 XX 15-APR-1996; 96US-00632782.  
 XX  
 XX 15-APR-1996; 96US-00632782.  
 XX  
 XX (UYHO-) UNIV HOUSTON.  
 PA (HARD/) HARDIN S H.  
 XX

PI Hardin PE, Hardin SH, Homayouni R;  
 DR WPI; 2000-474852/41.  
 XX  
 XX Sequencing an unknown DNA molecule for the polymerase chain reaction and  
 PT other primer processes comprises primer walking of octamer  
 PT oligonucleotides.  
 XX  
 XX Example 8; Col 157-158; 161pp; English.  
 PS  
 XX This invention describes a novel method for sequencing an unknown DNA  
 CC molecule which comprises selecting a library primer from an octamer  
 CC oligonucleotide library consisting of 48 8-bp sequences and corresponding  
 CC complementary sequences, where the library primer is complementary to a  
 CC known sequence adjacent to the unknown sequence or is complementary to a  
 CC sequence in a known extension product. The method is useful for DNA  
 CC nucleotide sequencing, in PCR, and in other processes which make use of  
 CC primers. The octamers are used to identify coding sequences. Primer  
 CC walking using the octamer libraries is advantageous over other sequencing  
 CC methods because it does not require multiple cloning steps nor subsequent  
 CC template preparations, and it is a directed and methodical approach.  
 CC AAA80688-A81253 represent the octamer primers used in the primer walking  
 CC method of the invention  
 XX  
 XX Sequence 8 BP; 4 A; 1 C; 3 G; 0 T; 0 U; 0 Other;  
 SQ  
 Query Match 40.0%; Score 8; DB 1; Length 8;  
 Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 OY 10 GTCTCTTC 17  
 DB 8 GTCTCTTC 1  
 RESULT 61  
 AAA80762/c  
 ID AAA80762 standard; DNA; 8 BP.  
 XX  
 AC AAA80762;  
 XX  
 XX 24-NOV-2000 (first entry)  
 DT  
 XX A. thaliana primer walking octamer SEQ ID NO: 75.  
 DE  
 XX Primer walking; octamer; primer; DNA sequencing; PCR; ss.  
 KW Arabidopsis thaliana.  
 XX  
 OS Arabidopsis thaliana.  
 XX  
 XX US6083695-A.  
 PN  
 XX 04-JUL-2000.  
 PD  
 XX 21-MAY-1997; 97US-00859954.  
 XX  
 XX 15-APR-1996; 96US-00632782.  
 XX  
 XX (UYHO-) UNIV HOUSTON.  
 PA (HARD/) HARDIN S H.  
 XX  
 XX Hardin PE, Hardin SH, Homayouni R;  
 PI  
 XX WPI; 2000-474852/41.  
 DR  
 XX Sequencing an unknown DNA molecule for the polymerase chain reaction and  
 PT other primer processes comprises primer walking of octamer  
 PT oligonucleotides.  
 XX  
 XX Example 8; Col 63-64; 161pp; English.  
 PS  
 XX This invention describes a novel method for sequencing an unknown DNA  
 CC molecule which comprises selecting a library primer from an octamer  
 CC oligonucleotide library consisting of 48 8-bp sequences and corresponding



complementary sequences, where the library primer is complementary to a known sequence adjacent to the unknown sequence or is complementary to a sequence in a known extension product. The method is useful for DNA nucleotide sequencing, in PCR, and in other processes which make use of primers. The octamers are used to identify coding sequences. Primer walking using the octamer libraries is advantageous over other sequencing methods because it does not require multiple cloning steps nor subsequent template preparations, and it is a directed and methodical approach. AA80688-A81253 represent the octamer primers used in the primer walking method of the invention

XX  
SQ Sequence 8 BP; 4 A; 1 C; 3 G; 0 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCCTCC 8  
Db 8 TTGTCCTCC 1

RESULT 62  
AA81188/c  
ID AAA81188 standard; DNA; 8 BP.  
XX  
AC AA81188;  
XX  
XX 24-NOV-2000 (first entry)  
DT DT  
DE DE  
XX A. thaliana primer walking octamer SEQ ID NO: 501.  
XX  
XX Primer walking; octamer; primer; DNA sequencing; PCR; ss.  
XX Arabidopsis thaliana.  
XX  
XX US6083695-A.  
XX  
XX 04-JUL-2000.  
XX  
XX 21-MAY-1997; 97US-00859954.  
XX  
XX 15-APR-1996; 96US-00632782.  
XX  
XX (UYHO-) UNIV HOUSTON.  
PA (HARD/) HARDIN S H.  
XX  
XX Hardin PE, Hardin SH, Homayouni R;  
XX WPI; 2000-474852/41.  
XX  
XX Sequencing an unknown DNA molecule for the polymerase chain reaction and other primer processes comprises primer walking of octamer oligonucleotides.  
XX  
XX Claim 1; Col 277-278; 161pp; English.  
XX  
XX This invention describes a novel method for sequencing an unknown DNA molecule which comprises selecting a library primer from an octamer oligonucleotide library consisting of 48 8-bp sequences and corresponding complementary sequences, where the library primer is complementary to a known sequence adjacent to the unknown sequence or is complementary to a sequence in a known extension product. The method is useful for DNA nucleotide sequencing, in PCR, and in other processes which make use of primers. The octamers are used to identify coding sequences. Primer walking using the octamer libraries is advantageous over other sequencing methods because it does not require multiple cloning steps nor subsequent template preparations, and it is a directed and methodical approach. AA80688-A81253 represent the octamer primers used in the primer walking method of the invention

XX  
SQ Sequence 8 BP; 3 A; 1 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 2.8e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TTCCAGT 11  
Db 8 TTCCAGT 1

RESULT 63  
AAQ88288  
ID AAQ88288 standard; DNA; 10 BP.  
XX  
AC AAQ88288;  
XX  
XX 27-AUG-2003 (revised)  
DT 12-DEC-1995 (first entry)  
DT  
XX 5'-target sequence 2 for detection of fruit species by PCR.  
DE  
XX Polymerase chain reaction amplification; fruit juice; fruit pulp;  
KW species detection; apple; orange; grapefruit; RAPD technique; ss.  
XX Citrus.  
XX  
XX FR2711143-A1.  
PN  
XX 21-APR-1995.  
PD  
XX 13-OCT-1994; 94FR-00012235.  
PF  
XX 13-OCT-1993; 93GB-00021113.  
PR  
XX (UKAG-) UK MIN AGRIC FISHERIES & FOOD.  
PA  
XX Lindsey K, Twell D;  
PI WPI; 1995-157154/21.  
DR  
XX  
XX Identifying species, variety etc. of fruits by PCR amplification - then comparing products with standards, also new test kits, primers and hybridisation probes, partic. to detect fraudulent use in food prodn.  
PT  
XX Claim 7; Page 17; 20pp; French.  
PS  
XX Primers have been identified which give useful results for identification of genus, species or variety of fruits (see AAQ88293-Q88298);  
CC amplification profiles are established using several of the primers, which are complementary to regions (see AAQ88287-Q88292) at the 5'-end of the target sequences which are amplified. Using the primers it was possible to distinguish between e.g. different varieties of Navel oranges and also between "red" apples and "Granny Smith" apples. (Updated on 27-AUG-2003 to correct OS field.)  
CC  
XX Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 43;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CTCAGTC 12  
Db 2 CTCAGTC 9

RESULT 64  
AAQ88294/c  
ID AAQ88294 standard; DNA; 10 BP.  
XX  
AC AAQ88294;  
XX  
XX 12-DEC-1995 (first entry)  
DT  
XX



DE Primer sequence 8 for detection of fruit species by PCR.  
 XX  
 KW Polymerase chain reaction amplification; fruit juice; fruit pulp;  
 KW species detection; apple; orange; grapefruit; RAPD technique; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN FR2711143-A1.  
 XX  
 XX 21-APR-1995.  
 PD  
 XX 13-OCT-1994; 94PR-00012235.  
 PF  
 XX 13-OCT-1993; 93GB-00021113.  
 PR  
 XX (UKAG-) UK MIN AGRIC FISHERIES & FOOD.  
 PA  
 XX Lindsey K, Twell D;  
 PI  
 XX WPI; 1995-157154/21.  
 DR  
 XX Identifying species, variety etc. of fruits by PCR amplification - then  
 PT comparing products with standards, also new test kits, primers and  
 PT hybridisation probes, partic. to detect fraudulent use in food prodn.  
 PT  
 XX Claim 8; Page 17; 20pp; French.  
 PS  
 XX Primers have been identified which give useful results for identification  
 CC of genus, species or variety of fruits (see AAQ88293-Q88298);  
 CC amplification profiles are established using several of the primers,  
 CC which are complementary to regions (see AAQ88287-Q88292) at the 5'-end of  
 CC the target sequences which are amplified. Using the primers it was  
 CC possible to distinguish between e.g. different varieties of Navel oranges  
 CC and also between "red" apples and "Granny Smith" apples  
 CC  
 XX Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;  
 SQ Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 5 CTCGAGTC 12  
 DB |||||  
 9 CTCGAGTC 2  
 RESULT 65  
 AAV50258  
 ID AAV50258 standard; DNA; 10 BP.  
 AC  
 XX AAV50258;  
 AC  
 XX 21-OCT-1998 (first entry)  
 DT  
 XX Yeast tag for additional NORF chromosome 4 tag position 381712.  
 DE  
 XX Yeast; Saccharomyces cerevisiae; transcriptome; cell cycle; regulation;  
 KW eukaryotic cell; antifungal; SAGE tag; gene expression;  
 KW serial analysis of gene expression; probe; ss.  
 KW  
 XX Saccharomyces cerevisiae.  
 OS Synthetic.  
 OS  
 XX WO9832847-A2.  
 PN  
 XX 30-JUL-1998.  
 PD  
 XX 22-JAN-1998; 98WO-US001216.  
 PF  
 XX 23-JAN-1997; 97US-0035917P.  
 PR  
 XX (UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.  
 PA  
 XX

PI Velculescu VE, Vogelstein B, Kinzler KW;  
 XX WPI; 1998-427943/36.  
 DR  
 XX Yeast transcriptome - useful for modulating eukaryotic cell, for  
 PT screening antifungal agents, and for identifying genes in cell cycle  
 PT progression.  
 PT  
 XX Claim 1; Page 26; 44pp; English.  
 PS  
 XX Yeast transcriptome is encoded by a DNA molecule comprising a yeast gene  
 CC involved in cell cycle progression selected from the group of  
 CC nonannotated ORF (NORF) genes. SAGE (serial analysis gene expression)  
 CC tags for highly expressed genes and NORF genes are given in AAV50051 to  
 CC AAV50345. The present invention describes: (1) a method of using yeast  
 CC genes to modulate the cell cycle which comprises administering to a cell  
 CC an isolated DNA molecule comprising a yeast gene which is involved in  
 CC cell cycle progression selected from differentially expressed genes (SAGE  
 CC tags given in AAV50051 to AAV50345); (2) a method for screening candidate  
 CC antifungal drugs which comprises contacting a test substance with a yeast  
 CC cell and monitoring expression of a yeast gene which is involved in cell  
 CC cycle progression; (3) a method of identifying human genes which are  
 CC involved in cell cycle progression which comprises hybridizing a probe  
 CC comprising at least 10 contiguous nucleotides of a yeast gene which is  
 CC differentially expressed between at least 2 phases selected from the log  
 CC phase, the S phase and the G2/M phase; and (4) a probe for ascertaining  
 CC the phase in the cell cycle, where the probe comprises at least 14  
 CC contiguous nucleotides of a NORF gene (SAGE tags given in AAV50051 to  
 CC AAV50345), or as an array of probes on a solid support  
 CC  
 XX Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;  
 SQ Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 4 TCTCCAGT 11  
 DB |||||  
 1 TCTCCAGT 8  
 RESULT 66  
 AAZ08343/C  
 ID AAZ08343 standard; DNA; 10 BP.  
 AC  
 XX AAZ08343;  
 AC  
 XX 13-OCT-1999 (first entry)  
 DT  
 XX Nilaparvata lugens Stal. rice PCR primer sequence #9.  
 XX  
 DE Nilaparvata lugens Stal. rice PCR primer sequence #9.  
 DE  
 XX Nilaparvata lugens Stal; rice; detection; resistance; PCR marker; bph-2;  
 KW PCR primer; ss.  
 KW  
 XX Synthetic.  
 OS Nilaparvata lugens.  
 OS  
 XX JP11206376-A.  
 PN  
 XX 03-AUG-1999.  
 PD  
 XX 22-JAN-1998; 98JP-00010845.  
 PF  
 XX 22-JAN-1998; 98JP-00010845.  
 PR  
 XX (AICH-) AICHI KEN PREFECTURE.  
 PA  
 XX WPI; 1999-486354/41.  
 DR  
 XX Detection of resistance to Nilaparvata lugens Stal. rice - using  
 PT amplification techniques.  
 PT  
 XX Example; Page 11; 15pp; Japanese.  
 PS

XX		A method has been developed for the detection of resistance to
CC	Nilaparvata lugens Stal. rice. The method comprises: (1) amplification	
CC	a DNA fragment by PCR using a PCR marker and detection of the resistance,	
CC	in which a DNA fragment being specifically amplified in a species having	
CC	a gene (bph-2) resistant to Nilaparvata lugens Stal. using a genome DNA	
CC	of rice as a template and 1.3 Kbp in total with a base sequence shown by	
CC	sequence 1 (AAZ08335), comprising 300 bases at 5'-terminal and sequence 2	
CC	(AAZ08336) comprising 290 bases at 3'-terminal, respectively; and (2) a	
CC	PCR marker comprising a sense primer of base numbers shown in sequence 3	
CC	(AAZ08337) and an antisense primer of base numbers shown in sequence 5	
CC	(AAZ08341). The present invention also describes a primer for PCR using	
CC	rice genome of sequences 9, 10 or 11 (AAZ08343 to AAZ08345), or a couple	
CC	of sense primer of sequences 3 or 7 (AAZ08341), respectively, for	
CC	detection of the resistance. The method is used for the simple detection	
CC	of resistance to Nilaparvata lugens Stal	
XX		
SQ	Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 U; 0 Other;	
	Query Match	40.0%; Score 8; DB 1; Length 10;
	Best Local Similarity	100.0%; Pred.No. 43;
	Matches	8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy	3 GTCTCCAG 10	
Dd	10 GTCTCCAG 3	
RESULT 67		
AAZ81566		
ID	AAZ81566 standard; DNA; 10 BP.	
XX		
AC	AAZ81566;	
XX		
DT	07-APR-2000 (first entry)	
XX		
DE	Metastatic breast tumour cell upregulated transcript tag #800.	
XX		
KW	Human; metastatic breast tumour tissue; breast cancer; tag; primer;	
KW	non-metastatic breast tumour tissue; gene therapy; anticancer;	
KW	antimetastatic; vaccine; diagnosis; ss.	
XX		
OS	Homo sapiens.	
XX		
PN	WO9965928-A2.	
XX		
PD	23-DEC-1999.	
XX		
PF	18-JUN-1999; 99WO-US013647.	
XX		
PR	19-JUN-1998; 98US-0089853P.	
PR	19-JUN-1998; 98US-008997P.	
PR	19-JUN-1998; 98US-0090039P.	
PR	19-JUN-1998; 98US-0090040P.	
PR	19-JUN-1998; 98US-0090041P.	
XX		
PA	(GENZ ) GENZYME CORP.	
PA	(ROBE/) ROBERTS B L.	
PA	(SHAN// SHANKARA S.	
XX		
PI	Roberts BL, Shankara S;	
XX		
DR	WPI; 2000-106079/09.	
XX		
PT	Isolated polynucleotides differentially expressed between metastatic and	
PT	non-metastatic breast cancer cells, useful for diagnosis, prevention and	
PT	treatment of cancer.	
XX		
PS	Claim 1; Page 79; 219pp; English.	
XX		
CC	AAZ08767 to AAZ83941 represent tags corresponding to distinct transcripts	
CC	that are preferentially transcribed in the metastatic breast tumour	
CC	tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942	

CC	to AA286677 represent tags corresponding to distinct transcripts that are
CC	preferentially transcribed in the primary or non-metastatic breast tumour
CC	tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC	transcripts can be used for diagnosis, prognosis, monitoring and
CC	treatment of breast cancer, particularly where metastatic. Diagnosis is
CC	by standard immunoassays or hybridisation/amplification reactions.
CC	Compounds that modulate expression of the transcripts are potentially
CC	useful for treatment of (metastatic) breast cancer, while promoters from
CC	the transcripts are used to direct expression, in selected cell types, of
CC	e.g. therapeutic genes (also ribozymes or antisense sequences),
CC	particularly an antigen-encoding sequence for use in gene or cell-based
CC	vaccines. Polypeptides encoded by the transcripts are also useful in
CC	vaccines; for diagnosing breast cancer and for raising specific
CC	antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC	agents. Host cells that produce the polypeptides can be used to expand
CC	and isolate populations of educated, antigen-specific immune effector
CC	cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC	immunotherapy
XX	
XX	Sequence 10 BP; 2 A; 3 C; 2 G; 3 T; 0 U; 0 Other;
SQ	
	Query Match 40.0%; Score 8; DB 1; Length 10;
	Best Local Similarity 100.0%; Pred. No. 43;
	Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy	6 TCCAGTCT 13
Db	
	2 TCCAGTCT 9
RESULT 68	
AAZ86307/c	
ID	AAZ86307 standard; DNA; 10 BP.
XX	
AC	AAZ86307;
XX	
DT	07-APR-2000 (first entry)
XX	
DE	Metastatic breast tumour cell downregulated transcript tag #5541.
XX	
KW	Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW	non-metastatic breast tumour tissue; gene therapy; anticancer;
KW	antimetastatic; vaccine; diagnosis; ss.
XX	
XX	Homio sapiens.
OS	
PN	W09965928-A2.
XX	
PD	23-DEC-1999.
XX	
PF	18-JUN-1999; 99WO-US013647.
XX	
PR	19-JUN-1998; 98US-0089853P.
PR	19-JUN-1998; 98US-008997P.
PR	19-JUN-1998; 98US-0090039P.
PR	19-JUN-1998; 98US-0090040P.
PR	19-JUN-1998; 98US-0090041P.
XX	
PA	(GENZ ) GENZYME CORP.
PA	(ROBE// ROBERTS B L.
PA	(SHAN// SHANKARA S.
XX	
PI	Roberts BL, Shankara S;
XX	
DR	WPI, 2000-106079/09.
XX	
PT	Isolated polynucleotides differentially expressed between metastatic and
PT	non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT	treatment of cancer.
XX	
PS	Claim 1; Page 205; 219pp; English.
XX	
CC	AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts

CC that are preferentially transcribed in the metastatic breast tumour  
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942  
 CC to AAZ86677 represent tags corresponding to distinct transcripts that are  
 CC preferentially transcribed in the primary or non-metastatic breast tumour  
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
 CC transcripts can be used for diagnosis, prognosis, monitoring and  
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
 CC by standard immunoassays or hybridisation/amplification reactions.  
 CC Compounds that modulate expression of the transcripts are potentially  
 CC useful for treatment of (metastatic) breast cancer, while promoters from  
 CC the transcripts are used to direct expression, in selected cell types, of  
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
 CC particularly an antigen-encoding sequence for use in gene or cell-based  
 CC vaccines; for diagnosing breast cancer and for raising specific  
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
 CC agents. Host cells that produce the polypeptides can be used to expand  
 CC and isolate populations of educated, antigen-specific immune effector  
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
 CC immunotherapy  
 XX  
 SQ Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 3 GTCTCCAG 10  
 Db 8 GTCTCCAG 1  
 |||||

RESULT 69  
 AAZ83592/c  
 ID AAZ83592 standard; DNA; 10 BP.  
 XX  
 AC AAZ83592;  
 XX  
 DT 07-APR-2000 (first entry)  
 XX  
 DE Metastatic breast tumour cell upregulated transcript tag #2826.  
 XX  
 KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;  
 KW antimetastatic; vaccine; diagnosis; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9965928-A2.  
 XX  
 PD 23-DEC-1999.  
 XX  
 PF 18-JUN-1999; 99WO-US013647.  
 XX  
 PR 19-JUN-1998; 98US-0089853P.  
 PR 19-JUN-1998; 98US-0089997P.  
 PR 19-JUN-1998; 98US-0090039P.  
 PR 19-JUN-1998; 98US-0090040P.  
 PR 19-JUN-1998; 98US-0090041P.  
 XX  
 PA (GENZ ) GENZYME CORP.  
 PA (ROBE/) ROBERTS B L.  
 PA (SHAN/) SHANKARA S.  
 XX  
 PI Roberts BL, Shankara S;  
 XX  
 DR WPI; 2000-106079/09.  
 XX  
 PT Isolated polynucleotides differentially expressed between metastatic and  
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and  
 PT treatment of cancer.  
 XX  
 PS Claim 1; Page 134; 219pp; English.

XX  
 CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts  
 CC that are preferentially transcribed in the metastatic breast tumour  
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942  
 CC to AAZ86677 represent tags corresponding to distinct transcripts that are  
 CC preferentially transcribed in the primary or non-metastatic breast tumour  
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
 CC transcripts can be used for diagnosis, prognosis, monitoring and  
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
 CC by standard immunoassays or hybridisation/amplification reactions.  
 CC Compounds that modulate expression of the transcripts are potentially  
 CC useful for treatment of (metastatic) breast cancer, while promoters from  
 CC the transcripts are used to direct expression, in selected cell types, of  
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
 CC particularly an antigen-encoding sequence for use in gene or cell-based  
 CC vaccines. Polypeptides encoded by the transcripts are also useful in  
 CC vaccines; for diagnosing breast cancer and for raising specific  
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
 CC agents. Host cells that produce the polypeptides can be used to expand  
 CC and isolate populations of educated, antigen-specific immune effector  
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
 CC immunotherapy  
 XX  
 SQ Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 4 TCTCCAGT 11  
 Db 10 TCTCCAGT 3  
 |||||

RESULT 70  
 AAZ85035  
 ID AAZ85035 standard; DNA; 10 BP.  
 XX  
 AC AAZ85035;  
 XX  
 DT 07-APR-2000 (first entry)  
 XX  
 DE Metastatic breast tumour cell downregulated transcript tag #4269.  
 XX  
 KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;  
 KW antimetastatic; vaccine; diagnosis; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9965928-A2.  
 XX  
 PD 23-DEC-1999.  
 XX  
 PF 18-JUN-1999; 99WO-US013647.  
 XX  
 PR 19-JUN-1998; 98US-0089853P.  
 PR 19-JUN-1998; 98US-0089997P.  
 PR 19-JUN-1998; 98US-0090039P.  
 PR 19-JUN-1998; 98US-0090040P.  
 PR 19-JUN-1998; 98US-0090041P.  
 XX  
 PA (GENZ ) GENZYME CORP.  
 PA (ROBE/) ROBERTS B L.  
 PA (SHAN/) SHANKARA S.  
 XX  
 PI Roberts BL, Shankara S;  
 XX  
 DR WPI; 2000-106079/09.  
 XX  
 PT Isolated polynucleotides differentially expressed between metastatic and  
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and  
 PT treatment of cancer.



XX Isolated polynucleotides differentially expressed between metastatic and  
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and  
PT treatment of cancer.  
XX  
XX  
XX Claim 1; Page 124; 219pp; English.  
XX  
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts  
CC that are preferentially transcribed in the metastatic breast tumour  
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942  
CC to AA286677 represent tags corresponding to distinct transcripts that are  
CC preferentially transcribed in the primary or non-metastatic breast tumour  
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
CC transcripts can be used for diagnosis, prognosis, monitoring and  
CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
CC by standard immunoassays or hybridisation/amplification reactions.  
CC Compounds that modulate expression of the transcripts are potentially  
CC useful for treatment of (metastatic) breast cancer, while promoters from  
CC the transcripts are used to direct expression, in selected cell types, of  
CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
CC particularly an antigen-encoding sequence for use in gene or cell-based  
CC vaccines; for diagnosing breast cancer and for raising specific  
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
CC agents. Host cells that produce the polypeptides can be used to expand  
CC and isolate populations of educated, antigen-specific immune effector  
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
CC immunotherapy  
XX  
SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;  
Query Match 40.0%; Score 8; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 43;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 7 CCAGTCTC 14  
|||||||  
Db 10 CCAGTCTC 3  
RESULT 73  
AAZ80874/C  
ID AAZ80874 standard; DNA; 10 BP.  
XX  
XX AC AAZ80874;  
XX  
XX DT 07-APR-2000 (first entry)  
XX  
XX DE Metastatic breast tumour cell upregulated transcript tag #108.  
XX  
XX KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
XX non-metastatic breast tumour tissue; gene therapy; anticancer;  
XX anti-metastatic; vaccine; diagnosis; ss.  
XX  
XX OS Homo sapiens.  
XX  
XX FN WO9965928-A2.  
XX  
XX PD 23-DEC-1999.  
XX  
XX PF 18-JUN-1999; 99WO-US013647.  
XX  
XX PR 19-JUN-1998; 98US-0089853P.  
XX PR 19-JUN-1998; 98US-0089997P.  
XX PR 19-JUN-1998; 98US-0090039P.  
XX PR 19-JUN-1998; 98US-0090040P.  
XX PR 19-JUN-1998; 98US-0090041P.  
XX  
XX (GENZ ) GENZYME CORP.  
PA (ROBE/) ROBERTS B L.  
PA (SHAN/) SHANKARA S.  
XX  
XX Roberts BL, Shankara S;

XX WPI; 2000-106079/09.  
DR Isolated polynucleotides differentially expressed between metastatic and  
XX non-metastatic breast cancer cells, useful for diagnosis, prevention and  
PT treatment of cancer.  
XX  
XX Claim 1; Page 61; 219pp; English.  
XX  
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts  
CC that are preferentially transcribed in the metastatic breast tumour  
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942  
CC to AA286677 represent tags corresponding to distinct transcripts that are  
CC preferentially transcribed in the primary or non-metastatic breast tumour  
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
CC transcripts can be used for diagnosis, prognosis, monitoring and  
CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
CC by standard immunoassays or hybridisation/amplification reactions.  
CC Compounds that modulate expression of the transcripts are potentially  
CC useful for treatment of (metastatic) breast cancer, while promoters from  
CC the transcripts are used to direct expression, in selected cell types, of  
CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
CC particularly an antigen-encoding sequence for use in gene or cell-based  
CC vaccines. Polypeptides encoded by the transcripts are also useful in  
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
CC agents. Host cells that produce the polypeptides can be used to expand  
CC and isolate populations of educated, antigen-specific immune effector  
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
CC immunotherapy  
XX  
SQ Sequence 10 BP; 2 A; 4 C; 3 G; 1 T; 0 U; 0 Other;  
Query Match 40.0%; Score 8; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 43;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 3 GTCTCCAG 10  
|||||||  
Db 10 GTCTCCAG 3  
RESULT 74  
AAC74005  
ID AAC74005 standard; cDNA; 10 BP.  
XX  
XX AC AAC74005;  
XX  
XX DT 02-FEB-2001 (first entry)  
XX  
XX DE Human dendritic cell cDNA base sequence oligonucleotide #92.  
XX  
XX KW Human; dendritic cell; monocyte; immune system; diagnosis; cancer;  
XX autoimmune disease; tumour; ss.  
XX  
XX OS Homo sapiens.  
XX  
XX FN WO2000060074-A1.  
XX  
XX PD 12-OCT-2000.  
XX  
XX PF 30-MAR-2000; 2000WO-JP002019.  
XX  
XX PR 01-APR-1999; 99JP-00095481.  
XX  
XX PA (NISC-) JAPAN SCI & TECHNOLOGY CORP.  
XX  
XX FI Hashimoto S, Matsushima K, Suzuki T;  
XX WPI; 2000-619172/59.  
XX  
XX Groups of genes expressed in human dendritic cells at a greater or lesser  
PT extent than in monocytes for investigation and diagnosis of autoimmune



```

Qy      5 CTCCAGTC 12
Db      9 CTCCAGTC 2

RESULT 77
AAH63895
ID   AAH63895 standard; cDNA; 10 BP.
XX
AC   AAH63895;
XX
DT   20-SEP-2001 (first entry)
XX
DE   Human ubiquitously expressed transcriptome sequence SEQ ID NO: 735.
XX
KW   Human; transcriptome; gene expression pattern; cancer; drug screening;
KW   cancer diagnosis; cell specific gene expression; ss.
XX
OS   Homo sapiens.
XX
PN   WO200138577-A2.
XX
PD   31-MAY-2001.
XX
PF   21-NOV-2000; 2000WO-US031922.
XX
PR   24-NOV-1999; 99US-00448480.
XX
PA   (UYJO ) UNIV JOHNS HOPKINS.
XX
PI   Velculescu VB, Vogelstein B, Kinzler KW;
XX
DR   WPI; 2001-367706/38.
XX
PT   New isolated polynucleotides, useful for identifying specific cell type,
PT   such as cancer cell, comprises transcriptomes expressed in particular
PT   cell types.
XX
PS   Claim 13; Page 56; 94pp; English.
XX
SQ   Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;

Query Match      40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      8 CAGTCTCT 15
Db      1 CAGTCTCT 8

RESULT 78
AAH63530
ID   AAH63530 standard; cDNA; 10 BP.
XX
AC   AAH63530;
XX
DT   20-SEP-2001 (first entry)
XX
DE   Human ubiquitously expressed transcriptome sequence SEQ ID NO: 370.
XX
KW   Human; transcriptome; gene expression pattern; cancer; drug screening;
KW   cancer diagnosis; cell specific gene expression; ss.

Qy      5 CTCCAGTC 12
Db      9 CTCCAGTC 2

RESULT 77
AAH63895
ID   AAH63895 standard; cDNA; 10 BP.
XX
AC   AAH63895;
XX
DT   20-SEP-2001 (first entry)
XX
DE   Human ubiquitously expressed transcriptome sequence SEQ ID NO: 735.
XX
KW   Human; transcriptome; gene expression pattern; cancer; drug screening;
KW   cancer diagnosis; cell specific gene expression; ss.
XX
OS   Homo sapiens.
XX
PN   WO200138577-A2.
XX
PD   31-MAY-2001.
XX
PF   21-NOV-2000; 2000WO-US031922.
XX
PR   24-NOV-1999; 99US-00448480.
XX
PA   (UYJO ) UNIV JOHNS HOPKINS.
XX
PI   Velculescu VB, Vogelstein B, Kinzler KW;
XX
DR   WPI; 2001-367706/38.
XX
PT   New isolated polynucleotides, useful for identifying specific cell type,
PT   such as cancer cell, comprises transcriptomes expressed in particular
PT   cell types.
XX
PS   Claim 13; Page 56; 94pp; English.
XX
SQ   Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;

Query Match      40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      8 CAGTCTCT 15
Db      1 CAGTCTCT 8

RESULT 78
AAH63530
ID   AAH63530 standard; cDNA; 10 BP.
XX
AC   AAH63530;
XX
DT   20-SEP-2001 (first entry)
XX
DE   Human ubiquitously expressed transcriptome sequence SEQ ID NO: 370.
XX
KW   Human; transcriptome; gene expression pattern; cancer; drug screening;
KW   cancer diagnosis; cell specific gene expression; ss.

Qy      5 CTCCAGTC 12
Db      9 CTCCAGTC 2

RESULT 77
AAH63895
ID   AAH63895 standard; cDNA; 10 BP.
XX
AC   AAH63895;
XX
DT   20-SEP-2001 (first entry)
XX
DE   Human ubiquitously expressed transcriptome sequence SEQ ID NO: 735.
XX
KW   Human; transcriptome; gene expression pattern; cancer; drug screening;
KW   cancer diagnosis; cell specific gene expression; ss.
XX
OS   Homo sapiens.
XX
PN   WO200138577-A2.
XX
PD   31-MAY-2001.
XX
PF   21-NOV-2000; 2000WO-US031922.
XX
PR   24-NOV-1999; 99US-00448480.
XX
PA   (UYJO ) UNIV JOHNS HOPKINS.
XX
PI   Velculescu VB, Vogelstein B, Kinzler KW;
XX
DR   WPI; 2001-367706/38.
XX
PT   New isolated polynucleotides, useful for identifying specific cell type,
PT   such as cancer cell, comprises transcriptomes expressed in particular
PT   cell types.
XX
PS   Claim 13; Page 47; 94pp; English.
XX
SQ   Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match      40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      4 TCTCCAGT 11
Db      3 TCTCCAGT 10

RESULT 79
AAH41695/c
ID   AAH41695 standard; DNA; 10 BP.
XX
AC   AAH41695;
XX
DT   28-AUG-2001 (first entry)
XX
DE   Anti-PEP gene construction related oligonucleotide S4.
XX
KW   Phosphoenolpyruvate carboxylase; PEPCase; seed; acetyl-CoA carboxylase;
KW   oilseed; PEP; plant breeding; soya bean; sunflower; rapeseed; peanut;
KW   sesame; crop plant; protein content; fatty acid content; anti-PEP; ss.
XX
OS   Synthetic.
XX
PN   WO200134812-A1.
XX
PD   17-MAY-2001.
XX
PF   06-NOV-2000; 2000WO-CN000418.
XX
PR   09-NOV-1999; 99CN-00124511.
XX
PA   (ZHEJ-) ZHEJIANG AGRIC SCI ACAD.
XX
PI   Chen J, Lang C, Huang R, Hu Z, Liu Z;
XX
DR   WPI; 2001-335934/35.
XX

```





CC expressed genes may be used as markers of phases of the cell cycle. The  
 CC methods may be used to identify candidate drugs which affect the cell  
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064  
 CC represent SAGE tags used in the exemplification of the present invention.  
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
 CC method, in the exemplification of the present invention  
 XX  
 SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11  
 |||||  
 Db 1 TCTCCAGT 8

## RESULT 82

AAF39032

ID AAF39032 standard; DNA; 10 BP.

XX AC AAF39032;

DT 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5771.

DE Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 XX nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KW serial analysis of gene expression; antifungal; tag; identification;  
 KW linker; PCR primer; ds.

OS Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UJVO ) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.

XX Example; Page 206; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a  
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
 CC previously assigned open reading frame; or nonannotated ORF) genes  
 CC comprising a SAGE (serial analysis of gene expression) tag. Also  
 CC described are: (1) a method (M1) of using NORF genes to affect the cell  
 CC cycle comprising administering a NORF gene whose expression varies by at  
 CC least 10% between any two phases of the cell cycle selected from log  
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
 CC cell; and (b) monitoring expression of a NORF gene whose expression  
 CC varies as in M1, where a test substance which modifies the expression of  
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
 CC identifying human genes which are involved in cell cycle progression  
 CC comprising contacting human DNA with a probe which comprises at least 10  
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
 CC and (4) a method (M4) for identifying a candidate drug as a member of a  
 CC class of drugs having a characteristic effect on gene expression in a  
 CC yeast cell comprising contacting a yeast cell with a candidate drug and

CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
 CC expression is affected by the class of drugs. The NORF genes may be used  
 CC to study, monitor and affect phases of the cell cycle, the differentially  
 CC expressed genes may be used as markers of phases of the cell cycle. The  
 CC methods may be used to identify candidate drugs which affect the cell  
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064  
 CC represent SAGE tags used in the exemplification of the present invention.  
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
 CC method, in the exemplification of the present invention  
 XX  
 SQ Sequence 10 BP; 3 A; 3 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11  
 |||||  
 Db 3 TCTCCAGT 10

## RESULT 83

AAF36782

ID AAF36782 standard; DNA; 10 BP.

XX AC AAF36782;

DT 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:3521.

DE Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KW serial analysis of gene expression; antifungal; tag; identification;  
 KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UJVO ) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.

XX Example; Page 125; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a  
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
 CC previously assigned open reading frame; or nonannotated ORF) genes  
 CC comprising a SAGE (serial analysis of gene expression) tag. Also  
 CC described are: (1) a method (M1) of using NORF genes to affect the cell  
 CC cycle comprising administering a NORF gene whose expression varies by at  
 CC least 10% between any two phases of the cell cycle selected from log  
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
 CC cell; and (b) monitoring expression of a NORF gene whose expression  
 CC varies as in M1, where a test substance which modifies the expression of  
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
 CC identifying human genes which are involved in cell cycle progression  
 CC comprising contacting human DNA with a probe which comprises at least 10  
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;

CC and (4) a method (M4) for identifying a candidate drug as a member of a  
 CC class of drugs having a characteristic effect on gene expression in a  
 CC yeast cell comprising contacting a yeast cell with a candidate drug and  
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
 CC expression is affected by the class of drugs. The NORF genes may be used  
 CC to study, monitor and affect phases of the cell cycle, the differentially  
 CC expressed genes may be used as markers of phases of the cell cycle. The  
 CC methods may be used to identify candidate drugs which affect the cell  
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064  
 CC represent SAGE tags used in the exemplification of the present invention.  
 CC method, in the exemplification of the present invention

XX  
 SQ Sequence 10 BP; 1 A; 2 C; 1 G; 6 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 13 TCCTCGTT 20  
 Db 1 TCCTCGTT 8  
 |||||

RESULT 84  
 AAF43826  
 ID AAF43826 standard; DNA; 10 BP.  
 AC AAF43826;  
 XX  
 DT 23-MAR-2001 (first entry)  
 XX  
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:11965.  
 XX  
 KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KW serial analysis of gene expression; antifungal; tag; identification;  
 KW linker; PCR primer; ds.  
 XX  
 OS Saccharomyces cerevisiae.  
 XX  
 PN WO200077214-A2.  
 XX  
 PD 21-DEC-2000.  
 XX  
 PF 14-JUN-2000; 2000WO-US016223.  
 XX  
 PR 16-JUN-1999; 99US-00335032.  
 XX  
 PA (UYJO ) UNIV JOHNS HOPKINS.  
 XX  
 PI Velculescu V, Vogelstein B, Kinzler K;  
 XX  
 DR WPI; 2001-061874/07.  
 XX  
 XX  
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.  
 XX  
 PS Example; Page 377; 419pp; English.  
 XX  
 CC The present invention describes an isolated DNA molecule comprising a  
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
 CC previously assigned open reading frame; or nonannotated ORF) genes  
 CC comprising a SAGE (serial analysis of gene expression) tag. Also  
 CC described are: (1) a method (M1) of using NORF genes to affect the cell  
 CC cycle comprising administering a NORF gene whose expression varies by at  
 CC least 10% between any two phases of the cell cycle selected from log  
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
 CC cell; and (b) monitoring expression of a NORF gene whose expression  
 CC varies as in M1, where a test substance which modifies the expression of  
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for

CC identifying human genes which are involved in cell cycle progression  
 CC comprising contacting human DNA with a probe which comprises at least 10  
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
 CC and (4) a method (M4) for identifying a candidate drug as a member of a  
 CC class of drugs having a characteristic effect on gene expression in a  
 CC yeast cell comprising contacting a yeast cell with a candidate drug and  
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
 CC expression is affected by the class of drugs. The NORF genes may be used  
 CC to study, monitor and affect phases of the cell cycle, the differentially  
 CC expressed genes may be used as markers of phases of the cell cycle. The  
 CC methods may be used to identify candidate drugs which affect the cell  
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064  
 CC represent SAGE tags used in the exemplification of the present invention.  
 CC method, in the exemplification of the present invention

XX  
 SQ Sequence 10 BP; 0 A; 3 C; 1 G; 6 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GTCTCTTC 17  
 Db 3 GTCTCTTC 10  
 |||||

RESULT 85  
 AAF41988/c  
 ID AAF41988 standard; DNA; 10 BP.  
 XX  
 AC AAF41988;  
 XX  
 DT 23-MAR-2001 (first entry)  
 XX  
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8727.  
 XX  
 KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KW serial analysis of gene expression; antifungal; tag; identification;  
 KW linker; PCR primer; ds.  
 XX  
 OS Saccharomyces cerevisiae.  
 XX  
 PN WO200077214-A2.  
 XX  
 PD 21-DEC-2000.  
 XX  
 PF 14-JUN-2000; 2000WO-US016223.  
 XX  
 PR 16-JUN-1999; 99US-00335032.  
 XX  
 PA (UYJO ) UNIV JOHNS HOPKINS.  
 XX  
 PI Velculescu V, Vogelstein B, Kinzler K;  
 XX  
 DR WPI; 2001-061874/07.  
 XX  
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.  
 XX  
 PS Example; Page 311; 419pp; English.  
 XX  
 CC The present invention describes an isolated DNA molecule comprising a  
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
 CC previously assigned open reading frame; or nonannotated ORF) genes  
 CC comprising a SAGE (serial analysis of gene expression) tag. Also  
 CC described are: (1) a method (M1) of using NORF genes to affect the cell  
 CC cycle comprising administering a NORF gene whose expression varies by at  
 CC least 10% between any two phases of the cell cycle selected from log  
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast



comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell cycle comprising administering a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M; (2) a method (M2) for screening candidate antifungal drugs comprising: (a) contacting a test substance with a yeast cell; and (b) monitoring expression of a NORF gene whose expression varies as in M1, where a test substance which modifies the expression of the yeast gene is a candidate antifungal drug; (3) a method (M3) for identifying human genes which are involved in cell cycle progression comprising contacting human DNA with a probe which comprises at least 10 contiguous nucleotides of a NORF gene whose expression varies as in M1; and (4) a method (M4) for identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell comprising contacting a yeast cell with a candidate drug and monitoring expression in the yeast cell of at least 1 NORF gene whose expression is affected by the class of drugs. The NORF genes may be used to study, monitor and affect phases of the cell cycle, the differentially expressed genes may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which affect the cell cycle and for identification of antifungal drugs. AAF33268 to AAF44064 represent SAGE tags used in the exemplification of the present invention. CCF AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE method, in the exemplification of the present invention

Sequence 10 BP; 0 A; 4 C; 1 G; 5 T; 0 U; 0 Other;  
Query Match 40.0%; Score 8; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 43;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGTCCTCC 8  
Db 3 TTGTCCTCC 10

RESULT 88  
AAS95346  
ID AAS95346 standard; DNA; 10 BP.

AC AAS95346;  
XX  
XX  
XX 14-FEB-2002 (first entry)  
XX Human Histamine H2 receptor ASO primer extension PCR primer #6.

XX Human; histamine H2 receptor; HRH2; ss; PCR primer; polymorphic variant;  
XX haplotyping; genotyping; acid-peptic disorder; mammary cancer;  
XX gastric carcinoma; allele specific oligonucleotide; ASO;  
XX primer extension.

XX Homo sapiens.

XX WO200179220-A2.

XX 25-OCT-2001.

XX 12-APR-2001; 2001WO-US011941.

XX 12-APR-2000; 2000US-0196406P.

XX (GENA-) GENAISSANCE PHARM INC.

XX Chew A, Choi JY, Koshi B;

XX WPI; 2002-055249/07.

XX New human histamine H2 receptor (HRH2) isogene polymorphic variants,  
XX useful in expressing HRH2 protein for use in screening for candidate  
XX drugs to treat diseases related to HRH2 activity.

XX Claim 17; Page 14; 62pp; English.

CC The invention relates to an isolated polynucleotide comprising a  
CC polymorphic variant of a reference sequence for human Histamine H2  
CC receptor (HRH2) gene, its fragment or complement, and the polymorphic  
CC variant contains an HRH2 isogene defined by a haplotype listed in the  
CC specification. Also disclosed are methods for haplotyping and genotyping  
CC the HRH2 gene of an individual, a method for predicting a haplotype pair  
CC for the HRH2 gene of an individual, identifying an association between a  
CC trait and at least one haplotype or haplotype pair of HRH2 gene, allele  
CC specific oligonucleotides (ASO) for performing the haplotyping/  
CC genotyping, a recombinant nonhuman organisms transformed or transfected  
CC with the polymorphic variant, the protein expressed by the polymorphic  
CC variant, an antibody raised against the protein and screening for drugs  
CC targeting the polypeptide by contacting HRH2 polymorphic variant with a  
CC candidate agent and assaying for binding activity. The polymorphisms are  
CC useful for studying the biological function of HRH2 gene, as well as in  
CC identifying drugs targeting this protein for the treatment of disorder  
CC related to its abnormal expression or function. The polymorphic variants  
CC may be used in screening for compounds targeting CALM1 to treat a  
CC specific condition or disease predicted to be associated with HRH2  
CC activity, in studying the effect of the variation on the biological  
CC activity of HRH2 as well as on the binding affinity of candidate drugs  
CC targeting HRH2 for the treatment of acid-peptic disorders of the  
CC gastrointestinal tract and also possibly human mammary cancer and gastric  
CC carcinoma. The polymorphism and haplotype data can also be used for  
CC validating whether HRH2 is a suitable drug target for drugs to treat acid  
CC -peptic disorders of the gastrointestinal tract, screening of such drugs  
CC and reducing bias in clinical trials of such drugs. The present sequence  
CC is the 3' terminus of an ASO primer extension PCR primer used to detect  
CC the polymorphisms of the invention

Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 43;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CTCGAGTC 12  
Db 1 CTCGAGTC 8

RESULT 89

ABL60204

ID ABL60204 standard; DNA; 10 BP.

AC ABL60204;

XX 22-JUL-2002 (first entry)

XX Human MUC1 PCR primer SEQ ID NO 48.

XX Human; mucin 1; MUC1; transmembrane protein; SNP; cancer; cytostatic;  
XX single nucleotide polymorphism; haplotyping; genotyping; drug;  
XX antiinflammatory; PCR; primer; ss.

XX Homo sapiens.

XX WO200226765-A2.

XX 04-APR-2002.

XX 25-SEP-2001; 2001WO-US030151.

XX 28-SEP-2000; 2000US-0236113P.

XX (GENA-) GENAISSANCE PHARM INC.

XX Chew A, Koshi B;

XX WPI; 2002-405042/43.

XX New genetic variants of mucin 1, Transmembrane gene, useful in studying  
XX expression and function of protein encoded by the gene and for screening

PT drugs to treat diseases e.g. cancer.  
 XX Claim 16; Page 14; 75pp; English.  
 CC The invention relates to a polynucleotide (ABL60158, ABL60159) encoding  
 CC mucin 1/MUC1 (AB877476). Transmembrane isogene. The invention describes  
 CC novel genetic variants of the MUC1 gene. The invention is useful for  
 CC haplotyping/genotyping the MUC1 gene in an individual and identifying an  
 CC association between a trait and at least one of the haplotypes or  
 CC haplotype pairs of MUC1 gene. MUC1 is useful for studying the expression  
 CC and function of MUC1 and expressing MUC1 protein for use in screening for  
 CC candidate drugs to treat diseases related to MUC1 activity and in  
 CC studying the effect of the variation on the biological activity of MUC1  
 CC as well as on the binding affinity of candidate drugs targeting MUC1 for  
 CC the treatment of e.g. cancer. MUC1 is further used by the pharmaceutical  
 CC research scientist to validate MUC1 as a candidate target for and in  
 CC design of clinical trials of candidate drugs for, treating a specific  
 CC condition/disease or disease predicted to be associated with MUC1 activity.  
 CC MUC1 antibodies are useful in a variety of diagnostic and prognostic  
 CC formats and therapeutic methods. The present sequence is that of a PCR  
 CC primer for detecting MUC1 polymorphisms, useful to the invention  
 XX  
 SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;  
 Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred.No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 2 TGTCTCCA 9  
 |||||  
 Db 3 TGTCTCCA 10  
 RESULT 90  
 AAD25917  
 ID AAD25917 standard; DNA; 10 BP.  
 XX  
 AC AAD25917;  
 XX  
 DT 26-MAR-2002 (first entry)  
 XX  
 DE Human MC4R gene polymorphism detecting primer #2.  
 XX  
 KW Human; single nucleotide polymorphism; SNP; melanocortin 4-receptor;  
 KW MC4R; haplotype; obesity; screening; allele-specific oligonucleotide;  
 KW ASO; gene therapy; anorectic; primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200179222-A2.  
 XX  
 PD 25-OCT-2001.  
 XX  
 PF 12-APR-2001; 2001WO-US011943.  
 XX  
 PR 12-APR-2000; 2000US-0196677P.  
 XX  
 PA (GENA-) GENAISSANCE PHARM INC.  
 XX  
 PI Bentivegna SC, Choi JY, Kazemi A, Lee HH, Nandabalan K, Parks KE;  
 PI Sausker EA;  
 XX  
 DR WPI; 2002-082744/11.  
 XX  
 PT Novel polymorphic variants of melanocortin 4-receptor gene useful in  
 PT studying expression and function of the protein, useful for screening  
 PT candidate drugs to treat diseases related to the protein activity e.g.  
 PT obesity.  
 XX  
 PS Claim 17; Page 13; 53pp; English.  
 XX  
 CC The invention relates to single nucleotide polymorphisms (SNP) in human  
 CC melanocortin 4-receptor (MC4R) gene. MC4R gene haplotypes are useful for

CC improving the efficiency and reliability of several steps in the  
 CC discovery and development of drugs for treating diseases associated with  
 CC MC4R activity, e.g. obesity. MC4R gene is useful in studying the  
 CC expression and function of MC4R and in expressing MC4R protein for use in  
 CC screening for candidate drugs to treat diseases related to MC4R activity  
 CC and in studying the effect of the variation on the biological activity of  
 CC MC4R as well as on the binding affinity of candidate drugs targeting  
 CC MC4R for the treatment of obesity. MC4R antibody is useful in a variety  
 CC of diagnostic and prognostic formats and in therapeutic methods. Allele-  
 CC specific oligonucleotide (ASO) is useful as probes and primers, and for  
 CC assaying a polymorphism in MC4R gene. MC4R DNA is used in gene therapy.  
 CC The present sequence is a primer used to detect polymorphism in human  
 CC MC4R gene  
 XX  
 SQ Sequence 10 BP; 1 A; 2 C; 1 G; 6 T; 0 U; 0 Other;  
 Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred.No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 9 AGTCTCTT 16  
 |||||  
 Db 2 AGTCTCTT 9  
 RESULT 91  
 AAS95397/c  
 ID AAS95397 standard; DNA; 10 BP.  
 XX  
 AC AAS95397;  
 XX  
 DT 14-FEB-2002 (first entry)  
 XX  
 DE Human ICAM2 gene allele-specific oligonucleotide PCR primer #2.  
 XX  
 KW Human; intercellular adhesion molecule 2; ICAM2; haplotyping; ss;  
 KW haplotype pair; single nucleotide polymorphism; genotyping; PCR primer;  
 KW gene therapy; drug screening; anti-HIV; antiinflammatory; probe;  
 KW human immunodeficiency virus; sequencing primer.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200185918-A1.  
 XX  
 PD 15-NOV-2001.  
 XX  
 PF 07-MAY-2001; 2001WO-US014714.  
 XX  
 PR 05-MAY-2000; 2000US-0201946P.  
 XX  
 PA (GENA-) GENAISSANCE PHARM INC.  
 XX  
 PI Chew A, Choi JY, Denton RR, Kliem SE, Lee HH, Nandabalan K;  
 WPI; 2002-055590/07.  
 DR  
 XX  
 PT Novel polynucleotide containing polymorphisms in intercellular adhesion  
 PT molecule 2 gene, useful in developing drugs for treating human  
 PT immunodeficiency virus infection and inflammatory diseases.  
 XX  
 PS Claim 18; Page 13; 81pp; English.  
 XX  
 CC The invention relates to single nucleotide polymorphisms in the gene  
 CC encoding human intercellular adhesion molecule 2 (ICAM2). A method for  
 CC haplotyping the ICAM2 gene in an individual comprises identifying the  
 CC nucleotides at one or more polymorphic sites and determining whether one  
 CC of the copies of the gene is defined by one of the ICAM2 haplotypes given  
 CC in the specification or whether both copies are defined by a haplotype  
 CC pair. This method is useful in genotyping, whereby all possible haplotype  
 CC pairs can be assigned to specific genotypes. An association between a  
 CC trait and a haplotype or haplotype pair of the ICAM2 gene can be  
 CC identified by comparing the frequency of the haplotype or haplotype pair  
 CC in a population exhibiting the trait with the frequency of the haplotype

CC or haplotype pair in a reference population, where a higher haplotype  
 CC frequency in the trait population indicates the trait is associated with  
 CC the haplotype or haplotype pair. ICAM2 and its corresponding DNA are used  
 CC for studying the expression and function of ICAM2, for use in screening  
 CC for candidate drugs to treat diseases related to ICAM2 activity, such as  
 CC HIV infection and inflammatory diseases. The sequences are also useful  
 CC for studying the effect of variation on the biological activity of ICAM2.  
 CC as well as on the binding affinity of candidate drugs targeting ICAM2.  
 CC Sequences AAS95362-AAS95417 and AAS95419-AAS95442 represent allele-  
 CC specific oligonucleotide probes, sequencing primers, PCR primers and cDNA  
 CC encoding human ICAM2

XX SQ Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCCTCC 8  
 Db 10 TTGTCCTCC 3

RESULT 92  
 ABV78460/C  
 ID ABV78460 standard; cDNA; 10 BP.

XX AC ABV78460;

XX XX 29-NOV-2002 (first entry)

XX DE Human Th1 cell preferentially expressed EST SAGE tag, SEQ ID NO:171.

XX KW SAGE tag; serial analysis of gene expression; human; Th1 cell;  
 KW activated T cell; T lymphocyte; immune response; expression pattern;  
 KW preferential expression; immune disorder; EST; expressed sequence tag;  
 KW ss.

XX OS Homo sapiens.

XX XX JP2002186482-A.

XX PD 02-JUL-2002.

XX PF 19-DEC-2000; 2000JP-00385816.

XX PR 19-DEC-2000; 2000JP-00385816.

XX XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.

XX XX WPI; 2002-594261/64.

XX PT Human activated Th1 and Th2 cell expression gene group, useful for the  
 PT diagnosis and treatment of Th1 and Th2-related diseases.

XX PS Claim 19; Page 11; 60pp; Japanese.

XX CC The invention relates to SAGE (serial analysis of gene expression) tags  
 CC representing groups of genes which are expressed in activated human Th1  
 CC and/or Th2 cells. The SAGE tags of this invention consist of a sequence  
 CC of 10 nucleotides located downstream of the 5'-CATG-3' sequence motif  
 CC lying nearest to the polyA region of cDNAs derived from a variety of  
 CC genes. These tags serve to uniquely identify each transcript and can thus  
 CC be used to analyse the pattern of gene expression in particular cell  
 CC types. The invention also relates to proteins encoded by the genes  
 CC expressed in Th1 and/or Th2 cells, antibodies against these proteins, and  
 CC inhibitors of the expression of groups of genes that are expressed in  
 CC either or both the two cell types. Groups of genes expressed in Th1  
 CC and/or Th2 cell types may be used for the diagnosis and treatment of Th1  
 CC and Th2-related disorders. Sequences ABV78390-ABV78560 are SAGE tags  
 CC representing 171 genes which are more highly expressed in Th1 cells  
 CC compared with Th2 cells

SQ Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 TCCAGTCTC 13  
 Db 8 TCCAGTCTC 1

RESULT 93  
 ABV78336  
 ID ABV78336 standard; cDNA; 10 BP.

XX AC ABV78336;

XX DT 29-NOV-2002 (first entry)

XX DE Human ribosomal protein L23 SAGE tag, SEQ ID NO:47.

XX KW SAGE tag; serial analysis of gene expression; human; Th1 cell;  
 KW activated T cell; T lymphocyte; immune response; expression pattern;  
 KW immune disorder; ss.

XX OS Homo sapiens.

XX XX JP2002186482-A.

XX PD 02-JUL-2002.

XX PF 19-DEC-2000; 2000JP-00385816.

XX PR 19-DEC-2000; 2000JP-00385816.

XX XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.

XX XX WPI; 2002-594261/64.

XX PT Human activated Th1 and Th2 cell expression gene group, useful for the  
 PT diagnosis and treatment of Th1 and Th2-related diseases.

XX PS Claim 1; Page 8; 60pp; Japanese.

XX CC The invention relates to SAGE (serial analysis of gene expression) tags  
 CC representing groups of genes which are expressed in activated human Th1  
 CC and/or Th2 cells. The SAGE tags of this invention consist of a sequence  
 CC of 10 nucleotides located downstream of the 5'-CATG-3' sequence motif  
 CC lying nearest to the polyA region of cDNAs derived from a variety of  
 CC genes. These tags serve to uniquely identify each transcript and can thus  
 CC be used to analyse the pattern of gene expression in particular cell  
 CC types. The invention also relates to proteins encoded by the genes  
 CC expressed in Th1 and/or Th2 cells, antibodies against these proteins, and  
 CC inhibitors of the expression of groups of genes that are expressed in  
 CC either or both the two cell types. Groups of genes expressed in Th1  
 CC and/or Th2 cell types may be used for the diagnosis and treatment of Th1  
 CC and Th2-related disorders. Sequences ABV78290-ABV78339 are SAGE tags  
 CC representing 50 genes which are most highly expressed in Th1 cells

XX SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11  
 Db 3 TCTCCAGT 10

RESULT 94  
 ABK23747  
 ID ABK23747 standard; DNA; 10 BP.

XX AC ABK23747;  
 XX DT 09-APR-2002 (first entry)  
 XX DE Transcript tag DNA sequence #336 induced or suppressed by N-myc.  
 XX KW Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;  
 XX KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;  
 XX KW myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.  
 XX OS Homo sapiens.  
 XX PN WO200185941-A2.  
 XX PD 15-NOV-2001.  
 XX PF 11-MAY-2001; 2001WO-NL000361.  
 XX PR 11-MAY-2000; 2000EP-00201698.  
 XX PR 29-JUN-2000; 2000EP-00202284.  
 XX PA (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.  
 XX PI Versteeg R, Caron HN;  
 XX PS WPI; 2002-066603/09.  
 XX DR A new nucleic acid library of myc-dependent downstream genes capable of  
 XX PT supporting a neoplastic characteristic of cancer is useful to find new  
 XX PT therapies and diagnoses for cancer.  
 XX PS Disclosure; Page 58; 69pp; English.  
 XX CC The present invention relates to a nucleic acid library comprising myc-  
 XX CC dependent downstream genes or their functional fragments essentially  
 XX CC capable of supporting a neoplastic character of cancer such as growth,  
 XX CC invasion or spread. These myc target or tag sequences are identified by  
 XX CC SAGE (serial analysis of gene expression). The library is useful to find  
 XX CC new diagnoses and treatments for cancer. The invention is also useful to  
 XX CC enhance production of recombinant proteins in a production system with  
 XX CC high expression of endogenous or transfected myc oncogenes. ABK23412-  
 XX CC ABK23828 represent transcript tag DNA sequences that are activated or  
 XX CC repressed by N-myc in human neuroblastoma  
 XX SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;  
 XX  
 XX PS Disclosure; Page 58; 69pp; English.  
 XX CC The present invention relates to a nucleic acid library comprising myc-  
 XX CC dependent downstream genes or their functional fragments essentially  
 XX CC capable of supporting a neoplastic character of cancer such as growth,  
 XX CC invasion or spread. These myc target or tag sequences are identified by  
 XX CC SAGE (serial analysis of gene expression). The library is useful to find  
 XX CC new diagnoses and treatments for cancer. The invention is also useful to  
 XX CC enhance production of recombinant proteins in a production system with  
 XX CC high expression of endogenous or transfected myc oncogenes. ABK23412-  
 XX CC ABK23828 represent transcript tag DNA sequences that are activated or  
 XX CC repressed by N-myc in human neuroblastoma  
 XX SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;  
 XX  
 XX Query Match 40.0%; Score 8; DB 1; Length 10;  
 XX Best Local Similarity 100.0%; Pred. No. 43;  
 XX Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX  
 XX Qy 4 TCTCCAGT 11  
 XX Db 3 TCTCCAGT 10  
 XX  
 XX RESULT 95  
 XX ABK23710  
 XX ID ABK23710 standard; DNA; 10 BP.  
 XX AC ABK23710;  
 XX DT 09-APR-2002 (first entry)  
 XX DE Transcript tag DNA sequence #299 induced or suppressed by N-myc.  
 XX KW Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;  
 XX KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;  
 XX KW myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.  
 XX OS Homo sapiens.  
 XX PN WO200185941-A2.

XX PD 15-NOV-2001.  
 XX PF 11-MAY-2001; 2001WO-NL000361.  
 XX PR 11-MAY-2000; 2000EP-00201698.  
 XX PR 29-JUN-2000; 2000EP-00202284.  
 XX PA (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.  
 XX PI Versteeg R, Caron HN;  
 XX PS WPI; 2002-066603/09.  
 XX DR A new nucleic acid library of myc-dependent downstream genes capable of  
 XX PT supporting a neoplastic characteristic of cancer is useful to find new  
 XX PT therapies and diagnoses for cancer.  
 XX PS Disclosure; Page 57; 69pp; English.  
 XX CC The present invention relates to a nucleic acid library comprising myc-  
 XX CC dependent downstream genes or their functional fragments essentially  
 XX CC capable of supporting a neoplastic character of cancer such as growth,  
 XX CC invasion or spread. These myc target or tag sequences are identified by  
 XX CC SAGE (serial analysis of gene expression). The library is useful to find  
 XX CC new diagnoses and treatments for cancer. The invention is also useful to  
 XX CC enhance production of recombinant proteins in a production system with  
 XX CC high expression of endogenous or transfected myc oncogenes. ABK23412-  
 XX CC ABK23828 represent transcript tag DNA sequences that are activated or  
 XX CC repressed by N-myc in human neuroblastoma  
 XX SQ Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;  
 XX  
 XX Query Match 40.0%; Score 8; DB 1; Length 10;  
 XX Best Local Similarity 100.0%; Pred. No. 43;  
 XX Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX  
 XX Qy 8 CAGTCTCT 15  
 XX Db 1 CAGTCTCT 8  
 XX  
 XX RESULT 96  
 XX AAS97350  
 XX ID AAS97350 standard; DNA; 10 BP.  
 XX AC AAS97350;  
 XX DT 12-MAR-2002 (first entry)  
 XX DE Human CRYBB1 gene ASO primer extension PCR primer 3' end #9.  
 XX KW Human; crystallin beta B1; CRYBB1; chromosome 22q12.1; ophthalmological;  
 XX KW cataract; allele specific oligonucleotide; ASO; ss; haplotype;  
 XX KW genotyping; transgenic animal; PCR primer; primer extension.  
 XX OS Homo sapiens.  
 XX PN WO200185998-A1.  
 XX PD 15-NOV-2001.  
 XX PF 07-MAY-2001; 2001WO-US014715.  
 XX PR 05-MAY-2000; 2000US-0202253P.  
 XX PA (GENA-) GENAISSANCE PHARM INC.  
 XX PI Choi JY, Kazemi A, Kliehm SE, Koshy B, Rounds E;  
 XX PS WPI; 2002-062253/08.  
 XX DR Novel polymorphic variants of crystallin, beta B1 useful in studying  
 XX PT



PT expression and function of the protein, useful for screening candidate  
 XX drugs to treat diseases e.g. cataract.

PS Claim 17; Page 13; 94pp; English.

XX The invention relates to an isolated polynucleotide comprising a sequence  
 CC which is a polymorphic variant of a reference sequence for crystallin,  
 CC beta B1 (CRYBB1, located on chromosome 22q12.1) gene or their fragment,  
 CC where the polymorphic variant comprises a CRYBB1 isogene defined by a  
 CC haplotype from haplotypes 1-16 as given in the specification. Also  
 CC included are a transgenic non-human animal transformed or transfected  
 CC with the polymorphic variant, a computer system for storing and analysing  
 CC polymorphism data for CRYBB1 gene, a genome anthology for the CRYBB1 gene  
 CC which comprises the defined CRYBB1 isogenes, methods of determining an  
 CC individuals haplotype or genotype as well as methods of determining the  
 CC association of a particular haplotype with a disease or trait and a  
 CC composition comprising at least one genotyping oligonucleotide  
 CC (especially allele-specific oligonucleotides (ASO)) for detecting a  
 CC polymorphism in the CRYBB1. The isogenes or haplotypes are useful for  
 CC improving the efficiency and reliability of several steps in the  
 CC discovery and development of drugs for treating diseases associated with  
 CC CRYBB1 activity, e.g. cataract. and can also be used by the  
 CC pharmaceutical research scientist to validate CRYBB1 as a candidate  
 CC target for, and in design of clinical trials of candidate drugs for,  
 CC treating a specific condition drugs or disease predicted to be associated  
 CC with CRYBB1 activity. The ASOs are useful as probes and primers, and for  
 CC assaying a polymorphism in the target region. The present sequence is the  
 CC allele specific 3' end of a PCR primer used in primer extension  
 CC experiment to detect polymorphisms in CRYBB1

XX Sequence 10 BP; 0 A; 4 C; 2 G; 4 T; 0 U; 0 Other;

SQ Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 43;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCCTCC 8

Db 1 TTGTCCTCC 8

RESULT 97

ACA94446

ID ACA94446 standard; DNA; 10 BP.

XX ACA94446;

XX 18-JUL-2003 (first entry)

XX DNA tag from human transcript elevated in adenomas/cancers #27.

XX Colorectal cancer; colorectal adenoma; ss; human; renal dipeptidase;  
 KW macrophage inhibitory cytokine; MIC; RDP; faeces; blood;  
 KW kidney proximal tubule.

XX Homo sapiens.

XX WO2003022863-A1.

XX 20-MAR-2003.

XX 09-SEP-2002; 2002WO-US028518.

XX 07-SEP-2001; 2001US-0317494P.

XX 30-MAY-2002; 2002US-0383805P.

XX (UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.

XX Buckhaults P, Kinzler KW, Vogelstein B;

XX WPI; 2003-313220/30.

XX Detecting colorectal cancer in a subject, involves detecting macrophage

PT inhibitory cytokine or renal dipeptidase or their mRNA in feces or blood  
 XX of the subject.

PS Disclosure; Page 25; 59pp; English.

XX The invention relates to detecting CC (colorectal cancer e.g. colorectal  
 CC adenoma), comprising: (a) detecting macrophage inhibitory cytokine (MIC)  
 CC or renal dipeptidase (RDP) in faeces or blood of a subject and comparing  
 CC amount of MIC or RDP detected to that in normal subjects, where an  
 CC elevated amount of MIC or RDP in the subject is an indicator of CC in  
 CC subject; (b) isolating mRNA sample from faeces of a subject, detecting  
 CC MIC or RDP mRNA in the mRNA sample, and comparing amount of MIC or RDP  
 CC mRNA detected to that in normal subjects, where an elevated amount of MIC  
 CC or RDP mRNA in the subject is an indicator of CC in subject; (c)  
 CC isolating epithelial cells from blood of a subject, isolating an mRNA  
 CC sample from faeces of a subject or epithelial cells, detecting MIC or RDP  
 CC mRNA in the mRNA sample, and comparing the amount of MIC or RDP mRNA in  
 CC the mRNA sample to amounts of MIC or RDP mRNA in normal subjects, where  
 CC an elevated amount of MIC or RDP mRNA in the mRNA sample is an indicative  
 CC of CC in the subject; (d) contacting blood or faeces of a subject, with  
 CC an RDP substrate, detecting activity of RDP in the blood or faeces by  
 CC detection of increased reaction product or decreased RDP substrate, and  
 CC comparing the amount of activity of RDP in blood or faeces of the subject  
 CC to that in normal subjects, where an elevated amount of activity of RDP  
 CC in the blood or faeces of the subject is an indicator of CC in the  
 CC subject; (e) administering to a subject an antibody which specifically  
 CC binds to RDP or an inhibitor of RDP, where the antibody or inhibitor is  
 CC labeled with a moiety which is detectable from outside of the subject and  
 CC detecting the moiety in the subject from outside of the subject, where an  
 CC area of localisation of the moiety within the subject but outside the  
 CC proximal tubules of the kidney identifies CC; or (f) administering to a  
 CC subject a substrate for RDP, the substrate being labeled with a  
 CC detectable moiety, isolating faeces or blood from the subject, and  
 CC detecting in the faeces or blood RDP reaction product or decreased  
 CC substrate in the faeces or blood indicates CC in the subject. The methods  
 CC are useful for detecting colorectal cancer in a subject. The present  
 CC sequence is a DNA tag derived from a human transcript whose expression is  
 CC elevated in colorectal cancer or colorectal adenoma

SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 43;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11

Db 3 TCTCCAGT 10

RESULT 98

ABT14242/c

ID ABT14242 standard; DNA; 10 BP.

XX ABT14242;

XX 20-FEB-2003 (first entry)

XX Nucleic acid PCR amplification method-related RAPD PCR primer #12.

XX Nucleic acid amplification; nucleic acid analysis; DNA analysis; ss;  
 KW RNA analysis; RAPD; PCR; primer; random amplified polymorphic DNA.

XX Unidentified.

XX WO200281743-A2.

XX 17-OCT-2002.

XX 28-MAR-2002; 2002WO-GB001489.

XX 02-APR-2001; 2001GB-00008182.



XX PA (HAMI/) HAMILL B.  
 XX PI Hamill B;  
 XX DR WPI; 2003-075484/07.  
 XX PT Amplification of nucleotide sequences from polynucleotides by chain  
 PT extension of oligonucleotide primers, comprises 2 oligonucleotides in  
 PT solution, 2 attached to supports and both share complementary sequences.  
 XX PS Disclosure; Fig 17; 60pp; English.  
 XX CC The invention comprises a method for the PCR amplification of nucleic  
 CC acids. The method involves a set of primers, where two of the primers are  
 CC in solution and at least two other primers are attached to a solid  
 CC support. The method of the invention can be used for the analysis of a  
 CC nucleic acid or a mixture of nucleic acids, including: single-stranded  
 CC DNA molecules, double-stranded DNA molecules and mRNA molecules. The  
 CC present DNA sequence represents a random amplified polymorphic DNA (RAPD)  
 CC PCR primer of the invention  
 XX SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;  
 Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 5 CTCGAGTC 12  
 Db |||||  
 9 CTCGAGTC 2  
 RESULT 99  
 ID ADA00650 standard; DNA; 10 BP.  
 XX AC ADA00650;  
 XX DT 06-NOV-2003 (first entry)  
 XX DE Oligonucleotide microchip associated probe #3.  
 XX KW discrete porous entity; microchip; cross contamination;  
 KW chemical communication; co-polymerisation; ss; probe.  
 XX OS Synthetic.  
 XX FH Key Location/Qualifiers  
 FT modified\_base 1  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /not= "OTHER= Fluorescein"  
 XX US2003036063-A1.  
 XX PD 20-FEB-2003.  
 XX PF 15-AUG-2001; 2001US-00930865.  
 XX PR 15-AUG-2001; 2001US-00930865.  
 XX PA (MIRZ/) MIRZABEKOV A.  
 PA (TIMO/) TIMOFEEV E.  
 PA (VASI/) VASILISKOV V.  
 XX Mirzabekov A, Timofeev E, Vasiliskov V;  
 XX WPI; 2003-605713/57.  
 XX PT Making discrete porous entities containing synthetic and natural  
 PT compounds, useful as biochips, involves contacting each molecule at  
 PT individual positions on insert substrate with compound, and solidifying

PT the formed individual mixtures.  
 XX Example 2; Fig 5; 11pp; English.  
 XX CC The invention describes a method of making discrete porous entities that  
 CC each contain a different molecule. The method comprises: positioning each  
 CC different molecule at individual positions on an inert substrate;  
 CC contacting each positioned molecule with compound to form individual  
 CC mixtures; and solidifying the mixtures. The inventive method provides  
 CC microchips that minimise any chance for cross contamination and chemical  
 CC communication between entities. The contents of the entities do not mix  
 CC with each other. It provides microchips having higher sensitivity and  
 CC much faster kinetics of hybridisation. It facilitates the production of  
 CC co-polymerised gel pads that can be as small as 3 x 3 microns. This  
 CC sequence represents a associated with a oligonucleotide microchip  
 CC prepared by photoinduced simultaneous co-polymerisation of 4 allyl-  
 CC oligonucleotides.  
 XX SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;  
 Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 6 TCCAGTCT 13  
 Db |||||  
 2 TCCAGTCT 9  
 RESULT 100  
 ID ADL96158 standard; DNA; 10 BP.  
 XX AC ADL96158;  
 XX DT 20-MAY-2004 (first entry)  
 XX DE CD15+ myeloid cell associated probe seqid 56.  
 XX KW cytostatic; gene therapy; microarray; gene expression characteristic;  
 KW haematopoietic cell; haematopoiesis; myeloid leukaemia; probe;  
 KW CD15+ myeloid cell; ss.  
 XX OS Homo sapiens.  
 XX PN US2003165949-A1.  
 XX PD 04-SEP-2003.  
 XX PF 23-DEC-2002; 2002US-00329465.  
 XX PR 27-DEC-2001; 2001US-0343826P.  
 XX PA (WANG/) WANG S M.  
 PA (LEES/) LEE S.  
 PA (CHEN/) CHEN J.  
 PA (ZHOU/) ZHOU G.  
 PA (ROWL/) ROWLEY J D.  
 XX Wang SM, Lee S, Chen J, Zhou G, Rowley JD;  
 XX WPI; 2003-863699/80.  
 XX PT New microarray for measuring gene expression characteristics of  
 PT hematopoietic cells, useful for preparing a composition for diagnosing or  
 PT treating myeloid leukemia.  
 XX PS Claim 1; SEQ ID NO 56; 32pp; English.  
 XX CC The invention describes a microarray for measuring gene expression  
 CC characteristics of haematopoietic cells comprising at least 5  
 CC polynucleotides having distinct sequences. Also described are: a method  
 CC of diagnosing or treating an abnormality associated with haematopoiesis;

CC and diagnosing myeloid leukaemia in a patient. The microarray is useful  
 CC for preparing a composition for diagnosing or treating myeloid leukaemia.  
 CC This sequence represents a polynucleotide probe comprising a portion of  
 CC an expressed gene isolated from a population of CD15+ myeloid cells and  
 CC suitable for use in the microarray of the invention.

XX  
 SQ Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;  
 Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TCTCCAGT 11  
 |||||  
 DB 10 TCTCCAGT 3

RESULT 101  
 ADI53195  
 ID ADI53195 standard; DNA; 10 BP.

XX  
 AC ADI53195;

XX  
 DT 22-APR-2004 (first entry)

DE Human CD3E primer extension primer terminus #29.

XX Human; CD3 antigen epsilon subunit; CD3E; primer; ss; haplotype;  
 KW genotype; primer extension.

XX Homo sapiens.

XX US2004018493-A1.

XX  
 PD 29-JAN-2004.

XX  
 PF 12-JUL-2002; 2002US-00193507.

XX  
 PR 12-JUL-2002; 2002US-00193507.

XX (ANAS// ANASTASIO A E.

PA (KAZE// KAZEMI A.

PA (LACH// LACHOWICZ M.

PA (PABO// PABON V.

PA (SHAH// SHAH N.

XX Anastasio AE, Kazemi A, Lachowicz M, Pabon V, Shah N;

XX WPI; 2004-122016/12.

XX Haplotyping the CD3 antigen, epsilon subunit (CD3E) gene of an individual  
 PT by identifying the phased sequence of nucleotides at polymorphic sites  
 PT PS1-PS16 for at least one copy of the individual's CD3E gene.

XX Claim 22; SEQ ID NO 80; 59pp; English.

XX The invention relates to haplotyping the CD3 antigen, epsilon subunit  
 CC (CD3E) gene of an individual comprising identifying the phased sequence  
 CC of nucleotides at polymorphic sites PS1-PS16 for at least one copy of the  
 CC individual's CD3E gene and assigning to the individual a CD3E haplotype  
 CC or haplotype pair, given in the specification, that is consistent with  
 CC the phased sequence. Also included are genotyping the CD3E gene of an  
 CC individual, assigning a haplotype pair for the CD3E gene to an  
 CC individual, identifying an association between a trait and at least one  
 CC haplotype or haplotype pair of the CD3E gene, reducing the potential for  
 CC bias in a clinical trial of a candidate drug for treating a disease or  
 CC condition predicted to be associated with CD3E activity, an isolated CD3E  
 CC polynucleotide, a recombinant nonhuman organism transformed or  
 CC transfected with the isolated polynucleotide and expressing a CD3E  
 CC protein, an isolated fragment of a CD3E isogene (comprising at least 50  
 CC nucleotides in one of the regions of the CD3E gene (ADI53116) and one or  
 CC more polymorphisms (P1-P16), where the selected polymorphism has the  
 CC position given in the specification), screening for compounds targeting

CC the CD3E protein to treat a condition or disease predicted to be  
 CC associated with CD3E activity, validating the CD3E protein as a candidate  
 CC target for treating a medical condition predicted to be associated with  
 CC CD3E activity, an isolated oligonucleotide designed to detect a kit for  
 CC polymorphism in the CD3E gene at polymorphic sites PS1-PS16, a kit for  
 CC haplotyping or genotyping the CD3E gene of an individual and a genome  
 CC anthology for the CD3 antigen, epsilon subunit (CD3E) gene which  
 CC comprises two or more CD3E isogenes. The method is useful for haplotyping  
 CC the CD3 antigen, epsilon subunit (CD3E) gene of an individual for  
 CC screening for compounds targeting the CD3E protein to treat a condition  
 CC or disease predicted to be associated with CD3E activity. The present  
 CC sequence is a Human CD3E primer extension primer terminus.

XX  
 SQ Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TCTCCAGT 11  
 |||||  
 DB 3 TCTCCAGT 10

RESULT 102

ADK69774/c

ID ADK69774 standard; DNA; 10 BP.

XX  
 AC ADK69774;

XX  
 DT 06-MAY-2004 (first entry)

DE Type 2 helper T (Th2) cell protein-related PCR primer SeqID5.

XX Type 2 helper T cell; Th2 cell; Type 1 helper T cell; Th1 cell;

KW antiallergic; allergy; mouse; murine; ss; PCR; primer; ss.

XX Mus musculus.

XX JP2004016084-A.

XX  
 PD 22-JAN-2004.

XX  
 PF 14-JUN-2002; 2002JP-00175001.

XX  
 PR 14-JUN-2002; 2002JP-00175001.

XX (MITU ) MITSUBISHI CHEM CORP.

XX WPI; 2004-113867/12.

XX Novel protein expressing type 2 helper T cell, useful for controlling  
 PT immediate and delayed type allergy.

XX Example 1; SEQ ID NO 5; 35pp; Japanese.

XX This invention relates to a novel protein which is expressed in Type 2  
 CC helper T (Th2) cells, but not in Type 1 helper T (Th1) cells. The  
 CC invention may be useful for the production of compounds with an  
 CC antiallergic activity. The invention is useful for controlling immediate  
 CC and delayed type allergy. In addition, it may also be useful for  
 CC determining/analysing the risk of allergy developing in a subject. The  
 CC present sequence is that of a PCR primer which was used in the  
 CC exemplification of the invention.

XX  
 SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 43;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CTCACGTC 12  
 |||||



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XX 20-MAR-2003; 2003US-0456735P.
XX (DAND ) DANA FARBEN CANCER INST INC.
XX Polyak K, Porter D, Allinen M;
XX WPI; 2004-728732/71.
XX Diagnosing breast cancer comprises determining expression levels of a
PT gene selected from those differentially expressed in normal or cancerous
PT cells of a breast tissue sample including interleukin 1, thrombospondin 1
PT and cystatin C.
XX Example 6; SEQ ID NO 1536; 149pp; English.
XX The invention relates to a method of diagnosis (M1) comprising: (a)
CC providing a test sample of breast tissue; (b) determining the level of
CC expression in the test sample of a gene (e.g. interleukin-8, superoxide
CC dismutase 2 and tubulin, alpha 3) selected from Table 1 given in the
CC specification, and (c) if the gene is expressed in the test sample at a
CC lower level than in a control normal breast tissue sample, diagnosing the
CC test sample as containing cancer cells. The method is used for diagnosing
CC breast cancer. This sequence corresponds to an oligonucleotide primer
CC used in the method of the invention.
XX Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
XX Query Match 40.0%; Score 8; DB 1; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 43;
XX Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 4 TCTCCAGT 11
DB 3 TCTCCAGT 10
|||||
|||||

RESULT 106
ADZ85566
ID ADZ85566 standard; DNA; 10 BP.
XX AC
XX ADZ85566;
XX 28-JUL-2005 (first entry)
XX Human BACE455 cDNA PCR primer #7.
XX Beta-secretase 455; beta-secretase; BACE455; neurodegenerative disease;
XX Alzheimer's disease; Down syndrome; glaucoma; Parkinsons disease;
XX motor neurone disease; cerebrovascular ischemia; dementia;
XX neuroprotective; nootropic; ophthalmological; antiparkinsonian;
XX cerebroprotective; vasotropic; CNS-gen.; muscular-gen.; PCR; ss; primer.
XX Homo sapiens.
XX WO2005045021-A1.
XX 19-MAY-2005.
XX 05-NOV-2004; 2004WO-IB003897.
XX 06-NOV-2003; 2003US-0517401P.
XX (EXON-) EXONHIT THERAPEUTICS SA.
XX Desire L;
XX WPI; 2005-366843/37.
XX New beta-secretase 455 polypeptide, useful for detecting presence of
PT neurodegenerative disease or associated disorder, for assessing response
PT of subject to treatment of neuro-degenerative disease or associated
PT disorder.
XX 20-MAR-2003; 2003US-0456735P.
XX (DAND ) DANA FARBEN CANCER INST INC.
XX Polyak K, Porter D, Allinen M;
XX WPI; 2004-728732/71.
XX Diagnosing breast cancer comprises determining expression levels of a
PT gene selected from those differentially expressed in normal or cancerous
PT cells of a breast tissue sample including interleukin 1, thrombospondin 1
PT and cystatin C.
XX Example 6; SEQ ID NO 1536; 149pp; English.
XX The invention relates to a method of diagnosis (M1) comprising: (a)
CC providing a test sample of breast tissue; (b) determining the level of
CC expression in the test sample of a gene (e.g. interleukin-8, superoxide
CC dismutase 2 and tubulin, alpha 3) selected from Table 1 given in the
CC specification, and (c) if the gene is expressed in the test sample at a
CC lower level than in a control normal breast tissue sample, diagnosing the
CC test sample as containing cancer cells. The method is used for diagnosing
CC breast cancer. This sequence corresponds to an oligonucleotide primer
CC used in the method of the invention.
XX Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
XX Query Match 40.0%; Score 8; DB 1; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 43;
XX Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 4 TCTCCAGT 11
DB 3 TCTCCAGT 10
|||||
|||||

RESULT 107
AAZ86307
ID AAZ86307 standard; DNA; 10 BP.
XX AC
XX AAZ86307;
XX 07-APR-2000 (first entry)
XX Metastatic breast tumour cell downregulated transcript tag #5541.
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX non-metastatic breast tumour tissue; gene therapy; anticancer;
XX antimetastatic; vaccine; diagnosis; ss.
XX Homo sapiens.
XX WO9965928-A2.
XX 23-DEC-1999.
XX 18-JUN-1999; 99WO-US013647.
XX 19-JUN-1998; 98US-0089853P.

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XX 14-JUN-2000; 200WO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX
XX (UJVJ ) UNIV JOHNS HOPKINS.
XX
XX Velculescu V, Vogelstein B, Kinzler K;
XX
XX WPI; 2001-061874/07.
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
XX gene expression (SAGE) tags, useful for studying, monitoring and
XX affecting phases of the cell cycle.
XX
XX Example; Page 314; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
XX coding sequence of a yeast gene selected from a group of 745 NORF (not
XX previously assigned open reading frame; or nonannotated ORF) genes
XX comprising a SAGE (serial analysis of gene expression) tag. Also
XX described are: (1) a method (M1) of using NORF genes to affect the cell
XX cycle comprising administering a NORF gene whose expression varies by at
XX least 10% between any two phases of the cell cycle selected from log
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate
XX antifungal drugs comprising: (a) contacting a test substance with a yeast
XX cell; and (b) monitoring expression of a NORF gene whose expression
XX varies as in M1, where a test substance which modifies the expression of
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for
XX identifying human genes which are involved in cell cycle progression
XX comprising contacting human DNA with a probe which comprises at least 10
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;
XX and (4) a method (M4) for identifying a candidate drug as a member of a
XX class of drugs having a characteristic effect on gene expression in a
XX yeast cell comprising contacting a yeast cell with a candidate drug and
XX monitoring expression in the yeast cell of at least 1 NORF gene whose
XX expression is affected by the class of drugs. The NORF genes may be used
XX to study, monitor and affect phases of the cell cycle, the differentially
XX expressed genes may be used as markers of phases of the cell cycle. The
XX methods may be used to identify candidate drugs which affect the cell
XX cycle and for identification of antifungal drugs. AAF33268 to AAF44064
XX represent SAGE tags used in the exemplification of the present invention.
XX AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
XX method, in the exemplification of the present invention
XX
XX Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 22.0%; Score 4.4; DB 1; Length 10;
XX Best Local Similarity 83.3%; Pred. No. 1.2e+02;
XX Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX 9 AGTCTC 14
XX |||||
XX 6 AGATCT 1
XX
XX RESULT 112
XX AAZ81566/C
XX ID AAZ81566 standard; DNA; 10 BP.
XX
XX AC AAZ81566;
XX
XX 07-APR-2000 (first entry)
XX
XX Metastatic breast tumour cell upregulated transcript tag #800.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX non-metastatic breast tumour tissue; gene therapy; anticancer;
XX antimetastatic; vaccine; diagnosis; ss.
XX
XX Homo sapiens.
XX
XX W09965928-A2.
XX
XX
XX 23-DEC-1999.
XX
XX 18-JUN-1999; 99WO-US013647.
XX
XX 19-JUN-1998; 98US-0089853P.
XX
XX 19-JUN-1998; 98US-0089997P.
XX
XX 19-JUN-1998; 98US-0090039P.
XX
XX 19-JUN-1998; 98US-0090040P.
XX
XX 19-JUN-1998; 98US-0090041P.
XX
XX (GENZ ) GENZYME CORP.
XX (ROBE/) ROBERTS B L.
XX (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
XX Isolated polynucleotides differentially expressed between metastatic and
XX non-metastatic breast cancer cells, useful for diagnosis, prevention and
XX treatment of cancer.
XX
XX Claim 1; Page 79; 219pp; English.
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
XX that are preferentially transcribed in the metastatic breast tumour
XX tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
XX to AAZ86677 represent tags corresponding to distinct transcripts that are
XX preferentially transcribed in the primary or non-metastatic breast tumour
XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX transcripts can be used for diagnosis, prognosis, monitoring and
XX treatment of breast cancer, particularly where metastatic. Diagnosis is
XX by standard immunoassays or hybridisation/amplification reactions.
XX Compounds that modulate expression of the transcripts are potentially
XX useful for treatment of (metastatic) breast cancer, while promoters from
XX the transcripts are used to direct expression, in selected cell types, of
XX e.g. therapeutic genes (also ribozymes or antisense sequences),
XX particularly an antigen-encoding sequence for use in gene or cell-based
XX vaccines. Polypeptides encoded by the transcripts are also useful in
XX vaccines; for diagnosing breast cancer and for raising specific
XX antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
XX agents. Host cells that produce the polypeptides can be used to expand
XX and isolate populations of educated, antigen-specific immune effector
XX cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
XX immunotherapy
XX
XX Sequence 10 BP; 2 A; 3 C; 2 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 22.0%; Score 4.4; DB 1; Length 10;
XX Best Local Similarity 83.3%; Pred. No. 1.2e+02;
XX Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX 8 CAGTCT 13
XX |||||
XX 10 CAGACT 5
XX
XX RESULT 113
XX AAQ88288/C
XX ID AAQ88288 standard; DNA; 10 BP.
XX
XX AC AAQ88288;
XX
XX 27-AUG-2003 (revised)
XX 12-DEC-1995 (first entry)
XX
XX S'-target sequence 2 for detection of fruit species by PCR.
XX
XX Polymerase chain reaction amplification; fruit juice; fruit pulp;
XX species detection; apple; orange; grapefruit; RAPD technique; ss.
XX
XX Citrus.
XX

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XX PN FR2711143-A1.
XX PD 21-APR-1995.
XX PF 13-OCT-1994; 94FR-00012235.
XX PR 13-OCT-1993; 93GB-00021113.
XX PA (UKAG-) UK MIN AGRIC FISHERIES & FOOD.
XX PI Lindsey K, Twell D;
XX WPI; 1995-157154/21.
XX Identifying species, variety etc. of fruits by PCR amplification - then
PT comparing products with standards, also new test kits, primers and
PT hybridisation probes, partic. to detect fraudulent use in food prodn.
XX PS Claim 7; Page 17; 20pp; French.
XX CC Primers have been identified which give useful results for identification
CC of genus, species or variety of fruits (see AAQ88293-Q88298);
CC amplification profiles are established using several of the primers,
CC which are complementary to regions (see AAQ88287-Q88292) at the 5'-end of
CC the target sequences which are amplified. Using the primers it was
CC possible to distinguish between e.g. different varieties of Navel oranges
CC and also between "red" apples and "Granny Smith" apples
XX SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;
XX Query Match 21.0%; Score 4.2; DB 1; Length 10;
XX Best Local Similarity 66.7%; Pred. No. 1.3e+02;
XX Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX QY 3 GTCTCCAGT 11
XX | | | | |
XX Db 9 GACTGGAGT 1
XX
XX RESULT 114
XX ID AAQ88294 standard; DNA; 10 BP.
XX AC AAQ88294;
XX XX
XX DT 12-DEC-1995 (first entry)
XX DE Primer sequence 8 for detection of fruit species by PCR.
XX KW Polymerase chain reaction amplification; fruit juice; fruit pulp;
XX KW species detection; apple; orange; grapefruit; RAPD technique; ss.
XX OS Synthetic.
XX PN FR2711143-A1.
XX PD 21-APR-1995.
XX PF 13-OCT-1994; 94FR-00012235.
XX PR 13-OCT-1993; 93GB-00021113.
XX PA (UKAG-) UK MIN AGRIC FISHERIES & FOOD.
XX PI Lindsey K, Twell D;
XX WPI; 1995-157154/21.
XX Identifying species, variety etc. of fruits by PCR amplification - then
PT comparing products with standards, also new test kits, primers and
PT hybridisation probes, partic. to detect fraudulent use in food prodn.
XX SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;
XX Query Match 21.0%; Score 4.2; DB 1; Length 10;
XX Best Local Similarity 66.7%; Pred. No. 1.3e+02;
XX Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX QY 3 GTCTCCAGT 11
XX | | | | |
XX Db 9 GACTGGAGT 1
XX
XX RESULT 115
XX ID AAQ88343 standard; DNA; 10 BP.
XX AC AAQ88343;
XX XX
XX DT 13-OCT-1999 (first entry)
XX DE Nilaparvata lugens Stal. rice PCR primer sequence #9.
XX KW Nilaparvata lugens Stal; rice; detection; resistance; PCR marker; bph-2;
XX KW PCR primer; ss.
XX OS Synthetic.
XX PN Nilaparvata lugens.
XX PD JP11206376-A.
XX PF 03-AUG-1999.
XX PR 22-JAN-1998; 98JP-00010845.
XX PR 22-JAN-1998; 98JP-00010845.
XX PA (AICH-) AICHI KEN PREPECTURE.
XX DR WPI; 1999-486354/41.
XX PT Detection of resistance to Nilaparvata lugens Stal. rice - using
XX PS amplification techniques.
XX PS Example; Page 11; 15pp; Japanese.
XX CC A method has been developed for the detection of resistance to
XX CC Nilaparvata lugens Stal. rice. The method comprises: (1) amplification of
XX CC a DNA fragment by PCR using a PCR marker and detection of the resistance,
XX CC in which a DNA fragment being specifically amplified in a species having
XX CC a gene (bph-2) resistant to Nilaparvata lugens Stal. using a genome DNA
XX CC of rice as a template and 1.3 Kbp in total with a base sequence shown by
XX CC sequence 1 (AAZ08335), comprising 300 bases at 5'-terminal and sequence 2
XX CC (AAZ08336) comprising 290 bases at 3'-terminal, respectively; and (2) a
XX CC PCR marker comprising a sense primer of base numbers shown in sequence 3
XX CC (AAZ08337) and an antisense primer of base numbers shown in sequence 5
XX CC (AAZ08341). The present invention also describes a primer for PCR using
XX CC rice genome of sequences 9, 10 or 11 (AAZ08343 to AAZ08345), or a couple
XX CC of sense primer of sequences 3 or 7 (AAZ08341), respectively, for
XX CC detection of the resistance. The method is used for the simple detection
XX CC of resistance to Nilaparvata lugens Stal
XX SQ Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 U; 0 Other;

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Query Match      21.0%; Score 4.2; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      4 TCTCCAGTC 12
      ||| |||
Db      2 TCTGGAGAC 10

RESULT 116
AAA70756
ID AAA70756 standard; DNA; 10 BP.
XX
AC AAA70756;
XX
DT 17-JAN-2001 (first entry)
XX
DE PCR primer #2 for B. pumilus strain B3 DNA amplification.
XX
KW PCR primer; amplification; Bacillus pumilus B3; CECT 5105; plant growth;
KW Bacillus licheniformis B12; CECT 5106; gibberellin; plant hormone;
XX woody plant; herbaceous plant; disease resistance; ss.
XX
OS Bacillus pumilus.
XX
FN WO200043497-A1.
XX
PD 27-JUL-2000.
XX
PF 18-JAN-2000; 2000WO-ES000017.
XX
PR 20-JAN-1999; 99ES-00000106.
XX
PA (UYSA-) UNIV SAN PABLO CEU.
XX
PI Guierrez Manero J, Probanza Lobo A;
XX
XX WPI; 2000-499226/44.
XX
DE New strains of Bacillus, useful for promoting growth of herbaceous and
XX woody plants, produce gibberellin plant hormones.
XX
PS Disclosure; Page 15; 28pp; Spanish.
XX
XX The invention relates to the isolation of novel strains of bacteria
XX (Bacillus pumilus B3 (CECT 5105) and B. licheniformis B12 (CECT 5106))
XX which produce gibberellin plant hormones that regulate plant growth. The
XX plant growth hormones are produced at level of 0.0029-0.148 mg/l by B3
XX and at 0.0017-0.123 mg/l by B12, after 24 hour culture at 28 deg. C in
XX liquid medium. The new strains are used to treat cultured plants (both
XX woody and herbaceous) to increase their growth, vigour and disease
XX resistance. Primers AAA70755-A70762 were used to PCR amplify DNA from the
XX B. pumilus strain B3
XX
SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;

Query Match      21.0%; Score 4.2; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      3 GTCCTCCAGT 11
      ||| |||
Db      2 GACTGGAGT 10

RESULT 117
AAH41695
ID AAH41695 standard; DNA; 10 BP.
XX
AC AAH41695;
XX
DT 28-AUG-2001 (first entry)
XX
DE Nucleic acid PCR amplification method-related RAPD PCR primer #12.
XX
KW Nucleic acid amplification; nucleic acid analysis; DNA analysis; ss;
KW RNA analysis; RAPD; PCR; primer; random amplified polymorphic DNA.
XX
OS Unidentified.
XX
FN WO200281743-A2.
XX
PD 17-OCT-2002.
XX
PF 28-MAR-2002; 2002WO-GB001489.
XX
PR 02-APR-2001; 2001GB-00008182.

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DE Anti-PEP gene construction related oligonucleotide S4.
XX
KW Phosphoenolpyruvate carboxylase; PEPCase; seed; acetyl-CoA carboxylase;
KW oilseed; PEP; plant breeding; soya bean; sunflower; rapeseed; peanut;
KW sesame; crop plant; protein content; fatty acid content; anti-PEP; ss.
XX
OS Synthetic.
XX
FN WO200134812-A1.
XX
PD 17-MAY-2001.
XX
PF 06-NOV-2000; 2000WO-CN000418.
XX
PR 09-NOV-1999; 99CN-00124511.
XX
PA (ZHEJ-) ZHEJIANG AGRIC SCI ACAD.
XX
PI Chen J, Lang C, Huang R, Hu Z, Liu Z;
XX
DR WPI; 2001-335934/35.
XX
PT Altering protein/fatty acid composition of seeds, useful for producing
PT e.g. soya bean or sesame seed with high protein/fatty acid content,
PT comprises introducing antisense gene.
XX
PS Example 8; Page 8; 25pp; Chinese.
XX
XX The present invention describes a method for altering the protein/fatty
XX acid composition of seeds. The method comprises: (1) cloning
XX phosphoenolpyruvate carboxylase (PEP) or acetyl-CoA carboxylase (ACC)
XX genes or their fragments; (2) constructing the corresponding antisense
XX gene of anti-PEP or anti-ACC; and (3) introducing the antisense gene into
XX the plant cell of a crop. The method is applicable in plant breeding to
XX give oilseed crops with high oil or protein content like soya bean,
XX sunflower, rapeseed, peanut and sesame. The produced crop plants have
XX high yield of oil or protein. The present sequence represents an
XX oligonucleotide which is used in the construction of an anti-PEP gene in
XX an example from the present invention
XX
SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;

Query Match      21.0%; Score 4.2; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. No. 1.3e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy      3 GTCCTCCAGT 11
      ||| |||
Db      2 GACTGGAGT 10

RESULT 118
ABT14242
ID ABT14242 standard; DNA; 10 BP.
XX
AC ABT14242;
XX
DT 20-FEB-2003 (first entry)
XX
DE Nucleic acid PCR amplification method-related RAPD PCR primer #12.
XX
KW Nucleic acid amplification; nucleic acid analysis; DNA analysis; ss;
KW RNA analysis; RAPD; PCR; primer; random amplified polymorphic DNA.
XX
OS Unidentified.
XX
FN WO200281743-A2.
XX
PD 17-OCT-2002.
XX
PF 28-MAR-2002; 2002WO-GB001489.
XX
PR 02-APR-2001; 2001GB-00008182.

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XX PA (HAMI/) HAMILL B.  
XX PI Hamill B;  
XX DR WPI; 2003-075484/07.  
XX PT Amplification of nucleotide sequences from polynucleotides by chain  
XX extension of oligonucleotide primers, comprises 2 oligonucleotides in  
XX solution, 2 attached to supports and both share complementary sequences.  
XX PS Disclosure; Fig 17; 60pp; English.  
XX CC The invention comprises a method for the PCR amplification of nucleic  
XX acids. The method involves a set of primers, where two of the primers are  
XX in solution and at least two other primers are attached to a solid  
XX support. The method of the invention can be used for the analysis of a  
XX nucleic acid or a mixture of nucleic acids, including: single-stranded  
XX DNA molecules, double-stranded DNA molecules and mRNA molecules. The  
XX present DNA sequence represents a random amplified polymorphic DNA (RAPD)  
XX PCR primer of the invention  
XX SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;  
Query Match 21.0%; Score 4.2; DB 1; Length 10;  
Best Local Similarity 66.7%; Pred. No. 1.3e+02;  
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 3 GTCTCCAGT 11  
Db |||||  
2 GACTGGAGT 10  
RESULT 119  
ADK69774  
ID ADK69774 standard; DNA; 10 BP.  
XX AC ADK69774;  
XX DT 06-MAY-2004 (first entry)  
XX DE Type 2 helper T (Th2) cell protein-related PCR primer SeqID5.  
XX KW Type 2 helper T cell; Th2 cell; Type 1 helper T cell; Th1 cell;  
XX antiallergic; allergy; mouse; murine; ss; PCR; primer; ss.  
XX OS Mus musculus.  
XX PN JP2004016084-A.  
XX PD 22-JAN-2004.  
XX PF 14-JUN-2002; 2002JP-00175001.  
XX PR 14-JUN-2002; 2002JP-00175001.  
XX PA (MITU ) MITSUBISHI CHEM CORP.  
XX DR WPI; 2004-113867/12.  
XX PT Novel protein expressing type 2 helper T cell, useful for controlling  
XX immediate and delayed type allergy.  
XX PS Example 1; SEQ ID NO 5; 35pp; Japanese.  
XX CC This invention relates to a novel protein which is expressed in Type 2  
XX helper T (Th2) cells, but not in Type 1 helper T (Th1) cells. The  
XX invention may be useful for the production of compounds with an  
XX antiallergic activity. The invention is useful for controlling immediate  
XX and delayed type allergy. In addition, it may also be useful for  
XX determining/analysing the risk of allergy developing in a subject. The  
XX present sequence is that of a PCR primer which was used in the  
XX exemplification of the invention.

XX SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;  
Query Match 21.0%; Score 4.2; DB 1; Length 10;  
Best Local Similarity 66.7%; Pred. No. 1.3e+02;  
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 3 GTCTCCAGT 11  
Db |||||  
2 GACTGGAGT 10  
RESULT 120  
ADZ85566/c  
ID ADZ85566 standard; DNA; 10 BP.  
XX AC ADZ85566;  
XX DT 28-JUL-2005 (first entry)  
XX DE Human BACE455 cDNA PCR primer #7.  
XX KW Beta-secretase 455; beta-secretase; BACE455; neurodegenerative disease;  
XX Alzheimers disease; Down syndrome; glaucoma; Parkinsons disease;  
XX motor neurone disease; cerebrovascular ischemia; dementia;  
XX neuroprotective; nootropic; ophthalmological; antiparkinsonian;  
XX cerebroprotective; vasotropic; CNS-Gen.; muscular-gen.; PCR; ss; primer.  
XX OS Homo sapiens.  
XX PN WO2005045021-A1.  
XX PD 19-MAY-2005.  
XX PF 05-NOV-2004; 2004WO-IB003897.  
XX PR 06-NOV-2003; 2003US-0517401P.  
XX PA (EXON-) EXONHIT THERAPEUTICS SA.  
XX PI Desire L;  
XX DR WPI; 2005-366843/37.  
XX PT New beta-secretase 455 polypeptide, useful for detecting presence of  
XX neurodegenerative disease or associated disorder, for assessing response  
XX of subject to treatment of neuro-degenerative disease or associated  
XX disorder.  
XX PS Disclosure; SEQ ID NO 21; 77pp; English.  
XX CC The invention relates to a human beta-secretase (BACE) 455 polypeptide or  
XX a distinctive fragment of the polypeptide. The invention also relates to  
XX an isolated polynucleotide encoding the polypeptide, a vector comprising  
XX the polynucleotide, an inhibitory nucleic acid molecule that hybridizes  
XX under physiological conditions to a nucleic acid molecule encoding a  
XX BACE455 polypeptide and selectively inhibits its transcription or  
XX translation, a BACE455 inhibitor that inhibits the expression or activity  
XX of a BACE455 polypeptide or polynucleotide, a pharmaceutical composition  
XX comprising a BACE455 inhibitor and a carrier or vehicle, a method of  
XX selecting, characterizing, screening or optimizing a biologically active  
XX compound involving contacting a test compound with a BACE455  
XX polynucleotide, polypeptide or distinctive fragment of the polynucleotide  
XX or polypeptide and determining whether the test compound binds the  
XX BACE455 polynucleotide or polypeptide, a method of detecting the presence  
XX of BACE455 polynucleotide or polypeptide, a method of detecting the presence  
XX of or predisposition to a neurodegenerative disease or an associated  
XX disorder in a subject involving detecting the presence of a BACE455  
XX polynucleotide or polypeptide in a sample from the subject, a method of  
XX assessing the response of a subject to a treatment of a neurodegenerative  
XX disease or an associated disorder involving detecting the presence of a  
XX BACE455 polynucleotide or polypeptide in a sample from the subject, a  
XX method of determining the efficacy of a treatment of a neurodegenerative

CC disease or an associated disorder in a subject involving determining the  
 CC presence and/or abundance of a BACE455 polynucleotide or polypeptide in a  
 CC sample taken from the subject during or after the treatment and comparing  
 CC the presence and/or abundance to a reference sample from the subject  
 CC prior to or at an earlier stage of the treatment, a method of producing a  
 CC an antibody that binds a BACE455 polypeptide, and a method of producing a  
 CC composition comprising a BACE455 inhibitor. The sequences, methods and  
 CC compositions of the invention are useful for treating or preventing a  
 CC neurodegenerative disease or an associated disorder in a subject, such as  
 CC Alzheimer's disease, Down syndrome, glaucoma, Parkinson's disease,  
 CC amyotrophic lateral sclerosis, stroke and dementia. This sequence  
 CC represents a PCR primer used to amplify cDNA encoding the human BACE455  
 CC polypeptide of the invention.

XX SQ Sequence 10 BP; 1 A; 3 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 21.0%; Score 4.2; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 1.3e+02;  
 Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 7 CCAGTCTCT 15  
 |||||  
 Db 10 CCAGAGACT 2

RESULT 121  
 ADR36038  
 ID ADR36038 standard; DNA; 9 BP.

XX AC ADR36038;

XX DT 04-NOV-2004 (first entry)

XX DE Human nicking agent DNA containing BstNBI restriction site #2458.

XX KW ss; nicking agent; assay panel; diagnosis; expression pattern;

XX KW DNA fingerprinting; nosocomial infection; microbiological assay;

XX KW bacterial contamination; genome mapping; bioremediation.

XX OS Homo sapiens.

XX PN W02004067765-A2.

XX PD 12-AUG-2004.

XX PF 29-JAN-2004; 2004WO-US002720.

XX PR 29-JAN-2003; 2003US-0443811P.

XX PA (KECK-) KECK GRADUATE INST.

XX PI Van Ness J, Galas DJ, Van Ness LK;

XX DR WPI; 2004-581010/56.

XX PT Identifying nucleic acid sample source, useful for identifying bacterial  
 PT strains involved in nosocomial infections, comprises treating the nucleic  
 PT acid sample with components comprising a nicking agent under nicking  
 PT conditions.

XX PS Example 3; Page 105-219; 238pp; English.

XX CC The invention relates to a method of treating a nucleic acid sample with  
 CC components under nicking conditions, where the components comprise a  
 CC nicking agent, and the conditions cause the nicking agent to nick the  
 CC nucleic acid sample to thus produce a family of initiating  
 CC oligonucleotide fragments, and subjecting one or more members of the  
 CC family of initiating oligonucleotide fragments to a characterization  
 CC process to thus provide results. The method is useful for creating an  
 CC assay panel of diagnostic oligonucleotides that can identify any organism  
 CC or individual. The method is useful for characterizing other DNA  
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.  
 CC The method, kit or composition is useful for identifying the source

CC organism of a nucleic acid sample e.g., bacterium, fungus, virus, plant,  
 CC non-human animal or human. The method is particularly useful for rapidly  
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species,  
 CC subspecies, and especially strains or individuals of the subspecies. It  
 CC is especially useful for identifying different bacterial strains involved  
 CC in e.g., nosocomial infections. Furthermore, the method is useful for  
 CC diagnosing bacterial disease in plants and humans, monitoring for  
 CC bacterial content and/or contamination in the environment, monitoring  
 CC food for bacterial contamination, monitoring quality assurance/quality control of  
 CC bacterial contamination, monitoring microbiological assays, tracing bacterial  
 CC laboratory tests involving microbiological assays, genome mapping,  
 CC contamination and/or outbreaks of bacterial infections, and for monitoring  
 CC monitoring bioremediation sites, and for monitoring agricultural sites  
 CC for test crops, bacteria and recombinant molecules. Sequences ADR3581-  
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI  
 CC restriction site and used in the method of the invention.

XX SQ Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;

Query Match 20.0%; Score 4; DB 1; Length 9;  
 Best Local Similarity 66.7%; Pred. No. 2.5e+02;  
 Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 8 CAGTCT 13  
 :|||  
 Db 3 SAGACT 8

RESULT 122

ADR36039  
 ID ADR36039 standard; DNA; 9 BP.

XX AC ADR36039;

XX DT 04-NOV-2004 (first entry)

XX DE Human nicking agent DNA containing BstNBI restriction site #2459.

XX KW ss; nicking agent; assay panel; diagnosis; expression pattern;

XX KW DNA fingerprinting; nosocomial infection; microbiological assay;

XX KW bacterial contamination; genome mapping; bioremediation.

XX OS Homo sapiens.

XX PN W02004067765-A2.

XX PD 12-AUG-2004.

XX PF 29-JAN-2004; 2004WO-US002720.

XX PR 29-JAN-2003; 2003US-0443811P.

XX PA (KECK-) KECK GRADUATE INST.

XX PI Van Ness J, Galas DJ, Van Ness LK;

XX DR WPI; 2004-581010/56.

XX PT Identifying nucleic acid sample source, useful for identifying bacterial  
 PT strains involved in nosocomial infections, comprises treating the nucleic  
 PT acid sample with components comprising a nicking agent under nicking  
 PT conditions.

XX PS Example 3; Page 105-219; 238pp; English.

XX CC The invention relates to a method of treating a nucleic acid sample with  
 CC components under nicking conditions, where the components comprise a  
 CC nicking agent, and the conditions cause the nicking agent to nick the  
 CC nucleic acid sample to thus produce a family of initiating  
 CC oligonucleotide fragments, and subjecting one or more members of the  
 CC family of initiating oligonucleotide fragments to a characterization  
 CC process to thus provide results. The method is useful for creating an  
 CC assay panel of diagnostic oligonucleotides that can identify any organism

CC or individual. The method is useful for characterizing other DNA  
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.  
 CC The method, kit or composition is useful for identifying the source  
 CC organism of a nucleic acid sample e.g., bacterium, fungus, virus, plant,  
 CC non-human animal or human. The method is particularly useful for rapidly  
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species,  
 CC subspecies, and especially strains or individuals of the subspecies. It  
 CC is especially useful for identifying different bacterial strains involved  
 CC in e.g., nosocomial infections. Furthermore, the method is useful for  
 CC diagnosing bacterial disease in plants and humans, monitoring for  
 CC bacterial content and/or contamination in the environment, monitoring  
 CC food for bacterial contamination, monitoring quality assurance/quality control of  
 CC bacterial contamination, monitoring microbiological assays, tracing bacterial  
 CC laboratory tests involving microbiological assays, tracing bacterial  
 CC contamination and/or outbreaks of bacterial infections, genome mapping,  
 CC monitoring bioremediation sites, and for monitoring agricultural sites  
 CC for test crops, bacteria and recombinant molecules. Sequences ADR33581-  
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI  
 CC restriction site and used in the method of the invention.

XX SQ Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;

Query Match 20.0%; Score 4; DB 1; Length 9;  
 Best Local Similarity 66.7%; Pred. No. 2.5e+02;  
 Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 8 CAGTCT 13  
 :|||  
 Db 3 SAGACT 8

RESULT 123

ADR36041  
 ID ADR36041 standard; DNA; 9 BP.

XX AC ADR36041;

XX DT 04-NOV-2004 (first entry)

XX DE Human nicking agent DNA containing BstNBI restriction site #2461.

XX KW ss; nicking agent; assay panel; diagnosis; expression pattern;  
 KW DNA fingerprinting; nosocomial infection; microbiological assay;  
 KW bacterial contamination; genome mapping; bioremediation.

XX OS Homo sapiens.

XX PN WO2004067765-A2.

XX PD 12-AUG-2004.

XX PF 29-JAN-2004; 2004WO-US002720.

XX PR 29-JAN-2003; 2003US-0443811P.

XX PA (KECK-) KECK GRADUATE INST.

XX PI Van Ness J, Galas DJ, Van Ness LK;

XX DR WPI; 2004-581010/56.

XX PT Identifying nucleic acid sample source, useful for identifying bacterial  
 PT strains involved in nosocomial infections, comprises treating the nucleic  
 PT acid sample with components comprising a nicking agent under nicking  
 PT conditions.

XX PS Example 3; Page 105-219; 238pp; English.

XX CC The invention relates to a method of treating a nucleic acid sample with  
 CC components under nicking conditions, where the components comprise a  
 CC nicking agent, and the conditions cause the nicking agent to nick the  
 CC nucleic acid sample to thus produce a family of initiating  
 CC oligonucleotide fragments, and subjecting one or more members of the

CC family of initiating oligonucleotide fragments to a characterization  
 CC process to thus provide results. The method is useful for creating an  
 CC assay panel of diagnostic oligonucleotides that can identify any organism  
 CC or individual. The method is useful for characterizing other DNA  
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.  
 CC The method, kit or composition is useful for identifying the source  
 CC organism of a nucleic acid sample e.g., bacterium, fungus, virus, plant,  
 CC non-human animal or human. The method is particularly useful for rapidly  
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species,  
 CC subspecies, and especially strains or individuals of the subspecies. It  
 CC is especially useful for identifying different bacterial strains involved  
 CC in e.g., nosocomial infections. Furthermore, the method is useful for  
 CC diagnosing bacterial disease in plants and humans, monitoring for  
 CC bacterial content and/or contamination in the environment, monitoring  
 CC food for bacterial contamination, monitoring quality assurance/quality control of  
 CC bacterial contamination, monitoring microbiological assays, tracing bacterial  
 CC contamination and/or outbreaks of bacterial infections, genome mapping,  
 CC monitoring bioremediation sites, and for monitoring agricultural sites  
 CC for test crops, bacteria and recombinant molecules. Sequences ADR33581-  
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI  
 CC restriction site and used in the method of the invention.

XX SQ Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;

Query Match 20.0%; Score 4; DB 1; Length 9;  
 Best Local Similarity 66.7%; Pred. No. 2.5e+02;  
 Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 8 CAGTCT 13  
 :|||  
 Db 3 SAGACT 8

RESULT 124

ADR36040  
 ID ADR36040 standard; DNA; 9 BP.

XX AC ADR36040;

XX DT 04-NOV-2004 (first entry)

XX DE Human nicking agent DNA containing BstNBI restriction site #2460.

XX KW ss; nicking agent; assay panel; diagnosis; expression pattern;  
 KW DNA fingerprinting; nosocomial infection; microbiological assay;  
 KW bacterial contamination; genome mapping; bioremediation.

XX OS Homo sapiens.

XX PN WO2004067765-A2.

XX PD 12-AUG-2004.

XX PF 29-JAN-2004; 2004WO-US002720.

XX PR 29-JAN-2003; 2003US-0443811P.

XX PA (KECK-) KECK GRADUATE INST.

XX PI Van Ness J, Galas DJ, Van Ness LK;

XX DR WPI; 2004-581010/56.

XX PT Identifying nucleic acid sample source, useful for identifying bacterial  
 PT strains involved in nosocomial infections, comprises treating the nucleic  
 PT acid sample with components comprising a nicking agent under nicking  
 PT conditions.

XX PS Example 3; Page 105-219; 238pp; English.

XX CC The invention relates to a method of treating a nucleic acid sample with  
 CC components under nicking conditions, where the components comprise a

CC nicking agent, and the conditions cause the nicking agent to nick the  
 CC nucleic acid sample to thus produce a family of initiating  
 CC oligonucleotide fragments, and subjecting one or more members of the  
 CC family of initiating oligonucleotide fragments to a characterization  
 CC process to thus provide results. The method is useful for creating an  
 CC assay panel of diagnostic oligonucleotides that can identify any organism  
 CC or individual. The method is useful for characterizing other DNA  
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.  
 CC The method, kit or composition is useful for identifying the source  
 CC organism of a nucleic acid sample e.g., bacterium, fungus, virus, plant,  
 CC non-human animal or human. The method is particularly useful for rapidly  
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species.  
 CC subspecies, and especially strains or individuals of the subspecies. It  
 CC is especially useful for identifying different bacterial strains involved  
 CC in e.g., nosocomial infections. Furthermore, the method is useful for  
 CC diagnosing bacterial disease in plants and humans, monitoring for  
 CC bacterial content and/or contamination in the environment, monitoring  
 CC food for bacterial contamination, monitoring manufacturing processes for  
 CC bacterial contamination, monitoring quality assurance/quality control of  
 CC laboratory tests involving microbiological assays, tracing bacterial  
 CC contamination and/or outbreaks of bacterial infections, genome mapping,  
 CC monitoring bioremediation sites, and for monitoring agricultural sites  
 CC for test crops, bacteria and recombinant molecules. Sequences ADR33581-  
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI  
 CC restriction site and used in the method of the invention.

XX Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;  
 Query Match 20.0%; Score 4; DB 1; Length 9;  
 Best Local Similarity 66.7%; Pred. No. 2.5e+02;  
 Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 8 CAGTCT 13  
 :|||  
 Db 3 SAGACT 8

RESULT 125  
 ABV69205/C  
 ID ABV69205 standard; cDNA; 11 BP.

XX ABV69205;

AC 21-OCT-2002 (first entry)

XX Human skin EST 6991.

XX Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhaeic;  
 KW immunosuppressive; antinflammatory; cycostatic; SAGE; neurodermatitis;  
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX Homo sapiens.

XX WO200253774-A2.

XX 11-JUL-2002.

XX 20-DEC-2001; 2001WO-EP015179.

XX 03-JAN-2001; 2001DE-01000127.

XX (HENK ) HENKEL KGAA.

XX Petersohn D, Conradt M, Hofmann K;

XX WPI; 2002-590638/63.

XX In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.

XX Disclosure; Page 219; 1345pp; German.

XX

CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention

XX Sequence 11 BP; 2 A; 4 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 20.0%; Score 4; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 CAGT 11  
 :|||  
 Db 4 CAGT 1

RESULT 126

AAS98827

AC AAS98827 standard; DNA; 10 BP.

XX AAS98827;

XX 26-MAR-2002 (first entry)

XX Colony stimulating factor 1 receptor (CSF1R) oligonucleotide #193.

XX Colony stimulating factor 1 receptor; CSF1R; polymorphic variant;  
 KW cycostatic; gene therapy; malignant histiocytosis; isogene;  
 KW myeloid malignancy; inflammatory disorder; transgenic animal; haplotype;  
 KW genotype; human; allele specific oligonucleotide; ASO; primer;  
 KW primer extension; ss.

XX Homo sapiens.

XX WO200179225-A2.

XX 25-OCT-2001.

XX 12-APR-2001; 2001WO-US012044.

XX 12-APR-2000; 2000US-0196411P.

XX (GENA-) GENAISSANCE PHARM INC.

XX Chew A, Choi JY, Koshiy B;

XX WPI; 2002-075058/10.

XX Novel polymorphic variants of colony stimulating factor 1 receptor useful  
 PT in studying expression and function of the protein, useful for screening  
 PT candidate drugs to treat diseases e.g. inflammatory disorders.

XX Claim 17; Page 17; 164pp; English.

XX The invention describes a novel isolated polynucleotide (I) comprising a  
 CC sequence which is a polymorphic variant (PV) of a reference sequence for  
 CC colony stimulating factor 1 receptor (CSF1R) gene, found on The  
 CC polypeptide are useful for improving the discovery and development of  
 CC drugs for treating diseases associated with CSF1R activity, e.g.,  
 CC malignant histiocytosis, myeloid malignancies, and inflammatory disorders  
 CC and the haplotypes can be used to validate CSF1R as a candidate target  
 CC for treating a specific condition or disease predicted to be associated  
 CC with CSF1R activity. Genotyping the CSF1R gene of an individual can also  
 CC be used in developing diagnostic tests and therapeutic treatments. (I) is  
 CC useful in studying the expression and function of CSF1R, and in

expressing CSF1R protein for use in screening for candidate drugs to treat diseases related to CSF1R activity and in studying the effect of the variation on the biological activity of CSF1R as well as on the binding affinity of candidate drugs targeting CSF1R. Antibodies are useful in a variety of diagnostic and prognostic formats and therapeutic methods. A transgenic animal is useful in studying expression of the CSF1R isogenes *in vivo*, for *in vivo* screening and testing of drugs targeted against CSF1R protein, and for testing the efficacy of therapeutic agents and compounds. Allele specific oligonucleotides (ASO) are useful as probes and primers, and for assaying a polymorphism in the target region. Without requiring any *a priori* knowledge of the phenotypic effect of any particular CSF1R or haplotype the invention provides a method for identifying lead compounds that are more likely to show efficacy in clinical trials. This sequence is a primer used to detect CSF1R gene polymorphisms by primer extension, described in the method of the invention

XX SQ Sequence 10 BP; 2 A; 3 C; 4 G; 1 T; 0 U; 0 Other;  
 Query Match 18.0%; Score 3.6; DB 1; Length 10;  
 Best Local Similarity 60.0%; Pred. No. 1.5e+02;  
 Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTC 12  
 Db 1 GCCTGGAGAC 10  
 |||||

RESULT 127  
 ABV66235/c  
 ID ABV66235 standard; cDNA; 11 BP.  
 XX AC ABV66235;  
 XX 21-OCT-2002 (first entry)  
 XX Human skin EST 4021.  
 XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;  
 KW immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;  
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX OS Homo sapiens.  
 XX W0200253774-A2.  
 XX 11-JUL-2002.  
 XX 20-DEC-2001; 2001WO-EP015179.  
 XX 03-JAN-2001; 2001DE-01000127.  
 XX (HENK ) HENKEL KGAA.  
 XX Petersohn D, Conradt M, Hofmann K;  
 XX WPI; 2002-590638/63.  
 XX In vitro identification of skin-expressed genes, useful for determining homeostasis and identifying cosmetic or pharmaceutical agents against e.g. skin cancer.  
 XX Disclosure; Page 136; 1345pp; German.  
 XX The invention relates to *in vitro* identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression. (M1) is useful for identifying genes involved in skin homeostasis; to determine skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma; ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;

CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the skin. The present sequence is that of a human expressed sequence tag (EST) of the invention

XX SQ Sequence 11 BP; 1 A; 3 C; 4 G; 3 T; 0 U; 0 Other;  
 Query Match 18.0%; Score 3.6; DB 1; Length 11;  
 Best Local Similarity 60.0%; Pred. No. 1.5e+02;  
 Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 5 CTCGAGTCTC 14  
 Db 11 CTGGAGACAC 2  
 |||||

RESULT 128  
 ADP69107/c  
 ID ADP69107 standard; DNA; 20 BP.  
 XX AC ADP69107;  
 XX 09-SEP-2004 (first entry)  
 XX Human mitonEET-specific antisense oligonucleotide #1.  
 XX human; antisense oligonucleotide; mitochondrial membrane;  
 KW insulin sensitising antidiabetic thiazolidinediones; mitonEET; diabetes;  
 KW immunological disorder; cardiovascular disorder; including hypertension;  
 KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.  
 XX OS Homo sapiens.  
 XX W02004053060-A2.  
 XX 24-JUN-2004.  
 XX 25-NOV-2003; 2003WO-US037621.  
 XX 06-DEC-2002; 2002US-0431529P.  
 XX (PHAA ) PHARMACIA CORP.  
 XX Colca JR;  
 XX WPI; 2004-468836/44.  
 XX New antisense oligonucleotides encoding mitonEET, useful for modulating mitonEET expression or for treating diseases associated with mitonEET, e.g. diabetes, immunological disorders or cardiovascular disorders.  
 XX Claim 4; SEQ ID NO 1; 226pp; English.  
 XX The invention comprises antisense oligonucleotides that are targeted to the nucleic acids encoding a family of human proteins from mitochondrial membranes, which bind insulin sensitising, antidiabetic thiazolidinediones (referred to as: mitonEET). The antisense oligonucleotides of the invention are useful for modulating mitonEET expression and for treating diseases or conditions associated with mitonEET, such as: diabetes, immunological disorders, cardiovascular disorders including hypertension, neurological disorders, and ischaemia/reperfusion injuries. The present DNA sequence represents a mitonEET-specific antisense oligonucleotide of the invention. NOTE: The present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a phosphorothioate backbone.  
 XX SQ Sequence 20 BP; 1 A; 6 C; 3 G; 10 T; 0 U; 0 Other;  
 Query Match 18.0%; Score 3.6; DB 1; Length 20;  
 Best Local Similarity 60.0%; Pred. No. 1.1e+02;  
 Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTC 12

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Db      ||| |||
      12 GACTGGAGAC 3

RESULT 129
ADP69109/c
ID   ADP69109 standard; DNA, 20 BP.
XX
AC   ADP69109;
XX
DT   09-SEP-2004 (first entry)
XX
DE   Human mitoNEET-specific antisense oligonucleotide #3.
XX
KW   human; antisense oligonucleotide; mitochondrial membrane;
KW   insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
KW   immunological disorder; cardiovascular disorder; including hypertension;
KW   neurological disorders; ischaemia; reperfusion; ss;
KW   2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
OS   Homo sapiens.
XX
PN   WO2004053060-A2.
XX
PD   24-JUN-2004.
XX
PF   25-NOV-2003; 2003WO-US037621.
XX
PR   06-DEC-2002; 2002US-0431529P.
XX
PA   (PHAA ) PHARMACIA CORP.
XX
PI   Colca JR;
XX
PI   WPI; 2004-468836/44.
XX
DR   24-JUN-2004.
XX
PT   New antisense oligonucleotides encoding mitoNEET, useful for modulating
PT   mitoNEET expression or for treating diseases associated with mitoNEET,
PT   e.g. diabetes, immunological disorders or cardiovascular disorders.
XX
PS   Claim 4; SEQ ID NO 3; 226pp; English.
XX
CC   The invention comprises antisense oligonucleotides that are targeted to
CC   the nucleic acids encoding a family of human proteins from mitochondrial
CC   membranes, which bind insulin sensitising, antidiabetic
CC   thiazolidinediones (referred to as: mitoNEET). The antisense
CC   oligonucleotides of the invention are useful for modulating mitoNEET
CC   expression and for treating diseases or conditions associated with
CC   mitoNEET, such as: diabetes, immunological disorders, cardiovascular
CC   disorders including hypertension, neurological disorders, and
CC   ischaemia/reperfusion injuries. The present DNA sequence represents a
CC   mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
CC   present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
CC   phosphorothioate backbone.
XX
SQ   Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;

      Query Match      18.0%; Score 3.6; DB 1; Length 20;
      Best Local Similarity 60.0%; Pred. No. 1.1e+02;
      Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      3 GTCTCCAGTC 12
      ||| |||
Db      11 GACTGGAGAC 2

RESULT 130
ADP69110/c
ID   ADP69110 standard; DNA, 20 BP.
XX
AC   ADP69110;
XX
DT   09-SEP-2004 (first entry)
XX

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XX
DE   Human mitoNEET-specific antisense oligonucleotide #4.
XX
KW   human; antisense oligonucleotide; mitochondrial membrane;
KW   insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
KW   immunological disorder; cardiovascular disorder; including hypertension;
KW   neurological disorders; ischaemia; reperfusion; ss;
KW   2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
OS   Homo sapiens.
XX
PN   WO2004053060-A2.
XX
PD   24-JUN-2004.
XX
PF   25-NOV-2003; 2003WO-US037621.
XX
PR   06-DEC-2002; 2002US-0431529P.
XX
PA   (PHAA ) PHARMACIA CORP.
XX
PI   Colca JR;
XX
PI   WPI; 2004-468836/44.
XX
DR   24-JUN-2004.
XX
PT   New antisense oligonucleotides encoding mitoNEET, useful for modulating
PT   mitoNEET expression or for treating diseases associated with mitoNEET,
PT   e.g. diabetes, immunological disorders or cardiovascular disorders.
XX
PS   Claim 4; SEQ ID NO 4; 226pp; English.
XX
CC   The invention comprises antisense oligonucleotides that are targeted to
CC   the nucleic acids encoding a family of human proteins from mitochondrial
CC   membranes, which bind insulin sensitising, antidiabetic
CC   thiazolidinediones (referred to as: mitoNEET). The antisense
CC   oligonucleotides of the invention are useful for modulating mitoNEET
CC   expression and for treating diseases or conditions associated with
CC   mitoNEET, such as: diabetes, immunological disorders, cardiovascular
CC   disorders including hypertension, neurological disorders, and
CC   ischaemia/reperfusion injuries. The present DNA sequence represents a
CC   mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
CC   present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
CC   phosphorothioate backbone.
XX
SQ   Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;

      Query Match      18.0%; Score 3.6; DB 1; Length 20;
      Best Local Similarity 60.0%; Pred. No. 1.1e+02;
      Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      3 GTCTCCAGTC 12
      ||| |||
Db      13 GACTGGAGAC 4

RESULT 131
ADP69108/c
ID   ADP69108 standard; DNA, 20 BP.
XX
AC   ADP69108;
XX
DT   09-SEP-2004 (first entry)
XX
DE   Human mitoNEET-specific antisense oligonucleotide #2.
XX
KW   human; antisense oligonucleotide; mitochondrial membrane;
KW   insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
KW   immunological disorder; cardiovascular disorder; including hypertension;
KW   neurological disorders; ischaemia; reperfusion; ss;
KW   2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
OS   Homo sapiens.
XX

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```

PN WO2004053060-A2.
XX
XX 24-JUN-2004.
XX
XX 25-NOV-2003; 2003WO-US037621.
XX
XX 06-DEC-2002; 2002US-0431529P.
XX
XX (PHAA ) PHARMACIA CORP.
XX
XX Colca JR;
XX
XX WPI; 2004-468836/44.
XX
XX New antisense oligonucleotides encoding mitoNEET, useful for modulating
XX mitoNEET expression or for treating diseases associated with mitoNEET,
XX e.g. diabetes, immunological disorders or cardiovascular disorders.
XX
XX Claim 4; SEQ ID NO 2; 226pp; English.
XX
XX The invention comprises antisense oligonucleotides that are targeted to
XX the nucleic acids encoding a family of human proteins from mitochondrial
XX membranes, which bind insulin sensitising, antidiabetic
XX thiazolidinediones (referred to as: mitoNEET). The antisense
XX oligonucleotides of the invention are useful for modulating mitoNEET
XX expression and for treating diseases or conditions associated with
XX mitoNEET, such as: diabetes, immunological disorders, cardiovascular
XX disorders including hypertension, neurological disorders, and
XX ischaemia/reperfusion injuries. The present DNA sequence represents a
XX mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
XX present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
XX phosphorothioate backbone.
XX
XX Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;
XX
XX Query Match 18.0%; Score 3.6; DB 1; Length 20;
XX Best Local Similarity 60.0%; Pred. No. 1.1e+02;
XX Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
XX
XX QY 3 GTCTCCAGTC 12
XX | | | | |
XX Db 10 GACTGGGAGAC 1
XX
XX RESULT 132
XX ADP69116/C
XX ID ADP69116 standard; DNA; 20 BP.
XX
XX AC ADP69116;
XX
XX DT 09-SEP-2004 (first entry)
XX
XX DE Human mitoNEET-specific antisense oligonucleotide #10.
XX
XX human; antisense oligonucleotide; mitochondrial membrane;
XX insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
XX immunological disorder; cardiovascular disorder; including hypertension;
XX neurological disorders; ischaemia; reperfusion; ss;
XX 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
XX OS Homo sapiens.
XX
XX PN WO2004053060-A2.
XX
XX 24-JUN-2004.
XX
XX 25-NOV-2003; 2003WO-US037621.
XX
XX 06-DEC-2002; 2002US-0431529P.
XX
XX (PHAA ) PHARMACIA CORP.
XX
XX Colca JR;
XX
XX WPI; 2004-468836/44.
XX
XX New antisense oligonucleotides encoding mitoNEET, useful for modulating
XX mitoNEET expression or for treating diseases associated with mitoNEET,
XX e.g. diabetes, immunological disorders or cardiovascular disorders.
XX
XX Claim 4; SEQ ID NO 2; 226pp; English.
XX
XX The invention comprises antisense oligonucleotides that are targeted to
XX the nucleic acids encoding a family of human proteins from mitochondrial
XX membranes, which bind insulin sensitising, antidiabetic
XX thiazolidinediones (referred to as: mitoNEET). The antisense
XX oligonucleotides of the invention are useful for modulating mitoNEET
XX expression and for treating diseases or conditions associated with
XX mitoNEET, such as: diabetes, immunological disorders, cardiovascular
XX disorders including hypertension, neurological disorders, and
XX ischaemia/reperfusion injuries. The present DNA sequence represents a
XX mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
XX present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
XX phosphorothioate backbone.
XX
XX Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;
XX
XX Query Match 18.0%; Score 3.6; DB 1; Length 20;
XX Best Local Similarity 60.0%; Pred. No. 1.1e+02;
XX Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
XX
XX QY 3 GTCTCCAGTC 12
XX | | | | |
XX Db 10 GACTGGGAGAC 1
XX
XX RESULT 132
XX ADP69116/C
XX ID ADP69116 standard; DNA; 20 BP.
XX
XX AC ADP69116;
XX
XX DT 09-SEP-2004 (first entry)
XX
XX DE Human mitoNEET-specific antisense oligonucleotide #10.
XX
XX human; antisense oligonucleotide; mitochondrial membrane;
XX insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
XX immunological disorder; cardiovascular disorder; including hypertension;
XX neurological disorders; ischaemia; reperfusion; ss;
XX 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
XX OS Homo sapiens.
XX
XX PN WO2004053060-A2.
XX
XX 24-JUN-2004.
XX
XX 25-NOV-2003; 2003WO-US037621.
XX
XX 06-DEC-2002; 2002US-0431529P.
XX
XX (PHAA ) PHARMACIA CORP.
XX
XX Colca JR;
XX
XX WPI; 2004-468836/44.
XX
XX New antisense oligonucleotides encoding mitoNEET, useful for modulating
XX mitoNEET expression or for treating diseases associated with mitoNEET,
XX e.g. diabetes, immunological disorders or cardiovascular disorders.
XX
XX Claim 4; SEQ ID NO 10; 226pp; English.
XX
XX The invention comprises antisense oligonucleotides that are targeted to
XX the nucleic acids encoding a family of human proteins from mitochondrial
XX membranes, which bind insulin sensitising, antidiabetic
XX thiazolidinediones (referred to as: mitoNEET). The antisense
XX oligonucleotides of the invention are useful for modulating mitoNEET
XX expression and for treating diseases or conditions associated with
XX mitoNEET, such as: diabetes, immunological disorders, cardiovascular
XX disorders including hypertension, neurological disorders, and
XX ischaemia/reperfusion injuries. The present DNA sequence represents a
XX mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
XX present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
XX phosphorothioate backbone.
XX
XX Sequence 20 BP; 2 A; 7 C; 3 G; 8 T; 0 U; 0 Other;
XX
XX Query Match 18.0%; Score 3.6; DB 1; Length 20;
XX Best Local Similarity 60.0%; Pred. No. 1.1e+02;
XX Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
XX
XX QY 3 GTCTCCAGTC 12
XX | | | | |
XX Db 14 GACTGGGAGAC 5
XX
XX RESULT 133
XX ADP69124/C
XX ID ADP69124 standard; DNA; 20 BP.
XX
XX AC ADP69124;
XX
XX DT 09-SEP-2004 (first entry)
XX
XX DE Human mitoNEET-specific antisense oligonucleotide #18.
XX
XX human; antisense oligonucleotide; mitochondrial membrane;
XX insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
XX immunological disorder; cardiovascular disorder; including hypertension;
XX neurological disorders; ischaemia; reperfusion; ss;
XX 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
XX OS Homo sapiens.
XX
XX PN WO2004053060-A2.
XX
XX 24-JUN-2004.
XX
XX 25-NOV-2003; 2003WO-US037621.
XX
XX 06-DEC-2002; 2002US-0431529P.
XX
XX (PHAA ) PHARMACIA CORP.
XX
XX Colca JR;
XX
XX WPI; 2004-468836/44.
XX
XX New antisense oligonucleotides encoding mitoNEET, useful for modulating
XX mitoNEET expression or for treating diseases associated with mitoNEET,
XX e.g. diabetes, immunological disorders or cardiovascular disorders.
XX
XX Claim 4; SEQ ID NO 18; 226pp; English.
XX
XX The invention comprises antisense oligonucleotides that are targeted to
XX the nucleic acids encoding a family of human proteins from mitochondrial

```



CC membranes, which bind insulin sensitising, antidiabetic  
 CC thiazolidinediones (referred to as: mitoNEET). The antisense  
 CC oligonucleotides of the invention are useful for modulating mitoNEET  
 CC expression and for treating diseases or conditions associated with  
 CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular  
 CC disorders including hypertension, neurological disorders, and  
 CC ischaemia/reperfusion injuries. The present DNA sequence represents a  
 CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The  
 CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a  
 CC phosphorothioate backbone.

XX  
 SQ Sequence 20 BP; 3 A; 7 C; 2 G; 8 T; 0 U; 0 Other;  
 Query Match 18.0%; Score 3.6; DB 1; Length 20;  
 Best Local Similarity 60.0%; Pred. No. 1.1e+02;  
 Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 GTCTCCAGTC 12  
 Db 15 GACTGGAGAC 6

RESULT 134  
 ADP69130/c  
 ID ADP69130 standard; DNA; 20 BP.  
 XX  
 AC ADP69130;  
 XX  
 DT 09-SEP-2004 (first entry)  
 XX  
 DE Human mitoNEET-specific antisense oligonucleotide #24.  
 XX  
 KW human; antisense oligonucleotide; mitochondrial membrane;  
 KW insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;  
 KW immunological disorder; cardiovascular disorder; including hypertension;  
 KW neurological disorders; ischaemia; reperfusion; ss;  
 KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2004053060-A2.  
 XX  
 XX 24-JUN-2004.  
 XX  
 XX 25-NOV-2003; 2003WO-US037621.  
 XX  
 XX 06-DEC-2002; 2002US-0431529P.  
 XX  
 PA (PHAA ) PHARMACIA CORP.  
 XX  
 PI Colca JR;  
 XX  
 XX WPI; 2004-468836/44.  
 XX  
 XX New antisense oligonucleotides encoding mitoNEET, useful for modulating  
 PT mitoNEET expression or for treating diseases associated with mitoNEET,  
 PT e.g. diabetes, immunological disorders or cardiovascular disorders.  
 XX  
 XX Claim 4; SEQ ID NO 24; 226pp; English.

CC The invention comprises antisense oligonucleotides that are targeted to  
 CC the nucleic acids encoding a family of human proteins from mitochondrial  
 CC membranes, which bind insulin sensitising, antidiabetic  
 CC thiazolidinediones (referred to as: mitoNEET). The antisense  
 CC oligonucleotides of the invention are useful for modulating mitoNEET  
 CC expression and for treating diseases or conditions associated with  
 CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular  
 CC disorders including hypertension, neurological disorders, and  
 CC ischaemia/reperfusion injuries. The present DNA sequence represents a  
 CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The  
 CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a  
 CC phosphorothioate backbone.

SQ Sequence 20 BP; 3 A; 7 C; 2 G; 8 T; 0 U; 0 Other;  
 Query Match 18.0%; Score 3.6; DB 1; Length 20;  
 Best Local Similarity 60.0%; Pred. No. 1.1e+02;  
 Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 GTCTCCAGTC 12  
 Db 16 GACTGGAGAC 7

RESULT 135  
 AAZ81653/c  
 ID AAZ81653 standard; DNA; 10 BP.  
 XX  
 AC AAZ81653;  
 XX  
 DT 07-APR-2000 (first entry)  
 XX  
 DE Metastatic breast tumour cell upregulated transcript tag #887.  
 XX  
 KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;  
 KW antimetastatic; vaccine; diagnosis; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9965928-A2.  
 XX  
 XX 23-DEC-1999.  
 XX  
 XX 18-JUN-1999; 99WO-US013647.  
 XX  
 XX 19-JUN-1998; 98US-0089853P.  
 PR 19-JUN-1998; 98US-0089997P.  
 PR 19-JUN-1998; 98US-0090039P.  
 PR 19-JUN-1998; 98US-0090040P.  
 PR 19-JUN-1998; 98US-0090041P.  
 XX  
 XX (GENZ ) GENZYME CORP.  
 PA (ROBE/) ROBERTS B L.  
 PA (SHAN/) SHANKARA S.  
 XX  
 PI Roberts BL, Shankara S;  
 XX  
 XX WPI; 2000-106079/09.  
 XX  
 XX Isolated polynucleotides differentially expressed between metastatic and  
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and  
 PT treatment of cancer.  
 XX  
 XX Claim 1; Page 82; 219pp; English.

CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts  
 CC that are preferentially transcribed in the metastatic breast tumour  
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942  
 CC to AAZ86677 represent tags corresponding to distinct transcripts that are  
 CC preferentially transcribed in the primary or non-metastatic breast tumour  
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
 CC transcripts can be used for diagnosis, prognosis, monitoring and  
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
 CC by standard immunoassays or hybridisation/amplification reactions.  
 CC Compounds that modulate expression of the transcripts are potentially  
 CC useful for treatment of (metastatic) breast cancer, while promoters from  
 CC the transcripts are used to direct expression, in selected cell types, of  
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
 CC particularly an antigen-encoding sequence for use in gene or cell-based  
 CC vaccines. Polypeptides encoded by the transcripts are also useful in  
 CC vaccines; for diagnosing breast cancer and for raising specific  
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
 CC agents. Host cells that produce the polypeptides can be used to expand  
 CC and isolate populations of educated, antigen-specific immune effector  
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive

```

CC immunotherapy
XX
SQ Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;

Query Match      17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db ||||
9 AGACT 5

RESULT 136
ADU19570
ID ADU19570 standard; DNA; 10 BP.
XX
AC ADU19570;
XX
13-JAN-2005 (first entry)
XX
XX Hypoxia-related tumorigenesis-related SAGE tag #1361.
DE
XX screening; hypoxia-related tumorigenesis;
XX hypoxia-induced gene regulation; tumour; SAGE tag; de.
XX
XX Unidentified.
XX
XX WO2004092198-A2.
XX
XX 28-OCT-2004.
XX
XX 09-APR-2004; 2004WO-US011087.
XX
XX 09-APR-2003; 2003US-0461712P.
XX
XX (GENZ ) GENZYME CORP.
XX
XX Nacht M;
XX
XX WPI; 2004-758333/74.
XX
XX Identifying agents that alter biological activity of a polypeptide
PT encoded by a polynucleotide involved in hypoxia-related tumorigenesis
PT comprises contacting an agent with a target cell and monitoring activity
PT of expressed product.
XX
XX Disclosure; Page 82; 100pp; English.
XX
XX The invention comprises a method of screening for candidate agents
CC capable of altering the biological activity of a protein encoded by a
CC nucleotide involved in hypoxia-related tumorigenesis. The method of the
CC invention involves: contacting a test agent with a target cell expressing
CC the nucleotide, and monitoring the activity of the expressed protein
CC product; if the test agent modifies the activity of the expressed protein
CC then this is a candidate agent. The method of the invention is useful for
CC modifying hypoxia-induced gene regulation and for diagnosing, prognosing
CC or treating tumours. The present DNA sequence represents a SAGE tag that
CC was used in the exemplification of the invention.
XX
SQ Sequence 10 BP; 4 A; 1 C; 3 G; 2 T; 0 U; 0 Other;

Query Match      17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db ||||
6 AGACT 10

RESULT 137
AAZ82947
CC immunotherapy
XX
SQ Sequence 10 BP; 1 A; 4 C; 2 G; 1 T; 0 U; 0 Other;

Query Match      17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db ||||
1 AGCCT 5

ID AAZ82947 standard; DNA; 10 BP.
XX
AC AAZ82947;
XX
07-APR-2000 (first entry)
XX
XX Metastatic breast tumour cell upregulated transcript tag #2181.
DE
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX non-metastatic breast tumour tissue; gene therapy; anticancer;
XX antimetastatic; vaccine; diagnosis; ss.
XX
XX Homo sapiens.
XX
XX WO9965928-A2.
XX
XX 23-DEC-1999.
XX
XX 18-JUN-1999; 99WO-US013647.
XX
XX 19-JUN-1998; 98US-0089853P.
XX
XX 19-JUN-1998; 98US-0089997P.
XX
XX 19-JUN-1998; 98US-0090039P.
XX
XX 19-JUN-1998; 98US-0090040P.
XX
XX 19-JUN-1998; 98US-0090041P.
XX
XX (GENZ ) GENZYME CORP.
XX
XX (ROBE/) ROBERTS B L.
XX
XX (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
XX Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1; Page 118; 219pp; English.
XX
XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 3 A; 2 C; 4 G; 1 T; 0 U; 0 Other;

Query Match      17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db ||||
1 AGCCT 5

```

## RESULT 138

AAZ83008/c  
ID AAZ83008 standard; DNA; 10 BP.

XX AC AAZ83008;  
XX 07-APR-2000 (first entry)  
XX Metastatic breast tumour cell upregulated transcript tag #2242.  
XX DE Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
XX KW non-metastatic breast tumour tissue; gene therapy; anticancer;  
XX KW antimetastatic; vaccine; diagnosis; ss.  
XX OS Homo sapiens.

XX PN W09965928-A2.  
XX PD 23-DEC-1999.

XX PF 18-JUN-1999; 99WO-US013647.  
XX PR 19-JUN-1998; 98US-0089853P.  
XX PR 19-JUN-1998; 98US-0089997P.  
XX PR 19-JUN-1998; 98US-0090039P.  
XX PR 19-JUN-1998; 98US-0090040P.  
XX PR 19-JUN-1998; 98US-0090041P.

XX PA (GENZ ) GENZYME CORP.  
XX PA (ROBE/) ROBERTS B L.  
XX PA (SHAN/) SHANKARA S.  
XX PI Roberts BL, Shankara S;  
XX WPI; 2000-106079/09.

XX DR Isolated polynucleotides differentially expressed between metastatic and  
XX PT non-metastatic breast cancer cells, useful for diagnosis, prevention and  
XX PT treatment of cancer.

XX PS Claim 1; Page 119; 219pp; English.

XX CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts  
CC that are preferentially transcribed in the metastatic breast tumour  
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942  
CC to AAZ86677 represent tags corresponding to distinct transcripts that are  
CC preferentially transcribed in the primary or non-metastatic breast tumour  
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
CC transcripts can be used for diagnosis, prognosis, monitoring and  
CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
CC by standard immunoassays or hybridisation/amplification reactions.  
CC Compounds that modulate expression of the transcripts are potentially  
CC useful for treatment of (metastatic) breast cancer, while promoters from  
CC the transcripts are used to direct expression, in selected cell types, of  
CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
CC particularly an antigen-encoding sequence for use in gene or cell-based  
CC vaccines. Polypeptides encoded by the transcripts are also useful in  
CC vaccines; for diagnosing breast cancer and for raising specific  
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
CC agents. Host cells that produce the polypeptides can be used to expand  
CC and isolate populations of educated, antigen-specific immune effector  
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
CC immunotherapy

XX SQ Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 10;  
Best Local Similarity 80.0%; Pred. No. 1.5e+02;

Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13

Db 8 AGCCT 4

## RESULT 139

AAZ86119  
ID AAZ86119 standard; DNA; 10 BP.

XX AC AAZ86119;  
XX 07-APR-2000 (first entry)  
XX DE Metastatic breast tumour cell downregulated transcript tag #5353.  
XX DE Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
XX KW non-metastatic breast tumour tissue; gene therapy; anticancer;  
XX KW antimetastatic; vaccine; diagnosis; ss.  
XX OS Homo sapiens.

XX PN W09965928-A2.  
XX PD 23-DEC-1999.

XX PF 18-JUN-1999; 99WO-US013647.  
XX PR 19-JUN-1998; 98US-0089853P.  
XX PR 19-JUN-1998; 98US-0089997P.  
XX PR 19-JUN-1998; 98US-0090039P.  
XX PR 19-JUN-1998; 98US-0090040P.  
XX PR 19-JUN-1998; 98US-0090041P.

XX PA (GENZ ) GENZYME CORP.  
XX PA (ROBE/) ROBERTS B L.  
XX PA (SHAN/) SHANKARA S.  
XX PI Roberts BL, Shankara S;  
XX WPI; 2000-106079/09.

XX DR Isolated polynucleotides differentially expressed between metastatic and  
XX PT non-metastatic breast cancer cells, useful for diagnosis, prevention and  
XX PT treatment of cancer.

XX PS Claim 1; Page 200; 219pp; English.

XX CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts  
CC that are preferentially transcribed in the metastatic breast tumour  
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942  
CC to AAZ86677 represent tags corresponding to distinct transcripts that are  
CC preferentially transcribed in the primary or non-metastatic breast tumour  
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
CC transcripts can be used for diagnosis, prognosis, monitoring and  
CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
CC by standard immunoassays or hybridisation/amplification reactions.  
CC Compounds that modulate expression of the transcripts are potentially  
CC useful for treatment of (metastatic) breast cancer, while promoters from  
CC the transcripts are used to direct expression, in selected cell types, of  
CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
CC particularly an antigen-encoding sequence for use in gene or cell-based  
CC vaccines. Polypeptides encoded by the transcripts are also useful in  
CC vaccines; for diagnosing breast cancer and for raising specific  
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
CC agents. Host cells that produce the polypeptides can be used to expand  
CC and isolate populations of educated, antigen-specific immune effector  
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
CC immunotherapy

XX SQ Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 10;  
Best Local Similarity 80.0%; Pred. No. 1.5e+02;

Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13

Db 8 AGCCT 4



Query Match 17.0%; Score 3.4; DB 1; Length 10;  
Best Local Similarity 80.0%; Pred. No. 1.5e+02;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13  
DB 3 AGCT 7

RESULT 142  
AAFP38171/c  
ID AAFP38171 standard; DNA; 10 BP.  
AC AAFP38171;  
XX  
DT 23-MAR-2001 (first entry)  
XX  
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4910.  
XX  
KW Yeast; Saccharomyces cerevisiae; Characterisation; cell cycle; NORF;  
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
KW serial analysis of gene expression; antifungal; tag; identification;  
KW linker; PCR primer; ds.  
XX  
OS Saccharomyces cerevisiae.  
XX  
PN WO200077214-A2.  
XX  
PD 21-DEC-2000.  
XX  
PF 14-JUN-2000; 2000WO-US016223.  
XX  
PR 16-JUN-1999; 99US-00335032.  
XX  
PA (UYJO ) UNIV JOHNS HOPKINS.  
XX  
PI Velculescu V, Vogelstein B, Kinzler K;  
XX  
DR WPI; 2001-061874/07.  
XX  
PT Yeast gene coding sequences comprising NORF genes with serial analysis of  
PT gene expression (SAGE) tags, useful for studying, monitoring and  
PT affecting phases of the cell cycle.  
XX  
PS Example; Page 175; 419pp; English.  
XX  
CC The present invention describes an isolated DNA molecule comprising a  
CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
CC previously assigned open reading frame; or nonannotated ORF) genes  
CC comprising a SAGE (serial analysis of gene expression) tag. Also  
CC described are: (1) a method (M1) of using NORF genes to affect the cell  
CC cycle comprising administering a NORF gene whose expression varies by at  
CC least 10% between any two phases of the cell cycle selected from log  
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
CC cell; and (b) monitoring expression of a NORF gene whose expression  
CC varies as in M1, where a test substance which modifies the expression of  
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
CC identifying human genes which are involved in cell cycle progression  
CC comprising contacting human DNA with a probe which comprises at least 10  
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
CC and (4) a method (M4) for identifying a candidate drug as a member of a  
CC class of drugs having a characteristic effect on gene expression in a  
CC yeast cell comprising contacting a yeast cell with a candidate drug and  
CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
CC expression is affected by the class of drugs. The NORF genes may be used  
CC to study, monitor and affect phases of the cell cycle, the differentially  
CC expressed genes may be used as markers of phases of the cell cycle. The  
CC methods may be used to identify candidate drugs which affect the cell  
CC cycle and for identification of antifungal drugs. AAFP33268 to AAFP4064  
CC represent SAGE tags used in the exemplification of the present invention.  
CC AAFP33262 to AAFP33267 represent linkers and PCR primers used in the SAGE

CC method, in the exemplification of the present invention  
XX  
SQ Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;  
Query Match 17.0%; Score 3.4; DB 1; Length 10;  
Best Local Similarity 80.0%; Pred. No. 1.5e+02;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13  
DB 10 AGACT 6

RESULT 143  
ACC41713  
ID ACC41713 standard; DNA; 10 BP.  
XX  
AC ACC41713;  
XX  
DT 21-MAY-2003 (first entry)  
XX  
DE Zinc finger protein DNA-binding domain target sequence SEQ ID NO:260.  
XX  
KW Zinc finger domain; zinc finger; zinc finger binding domain; probe;  
KW chimeric nucleic acid; library; PCR primer; ss.  
XX  
OS Synthetic.  
XX  
PN WO2003016571-A1.  
XX  
PD 27-FEB-2003.  
XX  
PF 17-AUG-2002; 2002WO-KR001560.  
XX  
PR 17-AUG-2001; 2001US-0313402P.  
XX  
PR 22-APR-2002; 2002US-0374355P.  
XX  
PA (TOOL-) TOOLGEN INC.  
XX  
PI Kim J, Bae K, Park K, Kwon Y, Ryu E, Hwang M;  
XX  
DR WPI; 2003-268344/26.  
XX  
PT New library comprising polypeptides having zinc finger domains, useful  
PT for producing chimeric nucleic acids.  
XX  
PS Claim 40; Page 105; 234pp; English.  
XX  
CC The present invention describes a library comprising polypeptides. Each  
CC polypeptide comprises a first or second zinc finger domain. The domains  
CC of each polypeptide are identical to a zinc finger domain from a  
CC naturally occurring protein and either do not occur in the same naturally  
CC occurring protein or occur in the same naturally occurring protein in a  
CC different configuration than in the polypeptide. The domains vary among  
CC polypeptides. Also described: (1) producing chimeric nucleic acids; (2)  
CC generating an artificial zinc finger polypeptide that specifically binds  
CC to a target DNA site; and (3) identifying a nucleic acid encoding a zinc  
CC finger polypeptide that specifically recognises a target DNA site. The  
CC library can be used for producing chimeric nucleic acids. ACC41551 to  
CC ACC41758 and ABR40919 to ABR41015 represent nucleotide and amino acid  
CC sequences given in the exemplification of the present invention  
XX  
SQ Sequence 10 BP; 5 A; 2 C; 2 G; 1 T; 0 U; 0 Other;  
Query Match 17.0%; Score 3.4; DB 1; Length 10;  
Best Local Similarity 80.0%; Pred. No. 1.5e+02;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13  
DB 6 AGACT 10

RESULT 144  
ADZ67944  
ID ADZ67944 standard; DNA; 10 BP.  
XX  
XX  
AC ADZ67944;  
DT 14-JUL-2005 (first entry)  
XX  
XX NTRK1 gene polymorphic site 8 primer extension oligonucleotide.  
DE  
XX  
XX Neurotrophic tyrosine kinase receptor type 1; NTRK1; Alzheimers disease;  
KW neurological disease; diagnosis; prognosis; primer; SNP detection;  
KW haplotype mapping; ss.  
XX  
OS Homo sapiens.  
XX  
XX WO2005037204-A2.  
PN  
XX  
XX 28-APR-2005.  
PD  
XX  
XX 14-OCT-2004; 2004WO-US033689.  
PF  
XX  
XX 15-OCT-2003; 2003US-0511247P.  
PR  
XX  
XX (GENA-) GENAISSANCE PHARM.  
PA  
XX  
XX Aarsens J, Athanasios M, Brain C, Cohen N, Dain B, Denton RR;  
PI Judson RS, Ozdemir V, Reed CR;  
PI  
XX  
XX WPI; 2005-322749/33.  
DR  
XX  
XX Determining whether individual has age of onset marker I or marker II, by  
PT determining whether individual has zero copies or copy of neurotrophic  
PT tyrosine kinase, receptor, type 1 haplotypes involved in onset of  
PT Alzheimer's disease.  
XX  
XX Disclosure; SEQ ID NO 42; 128pp; English.  
PS  
XX  
XX The inventors have discovered a set of 112 haplotypes in the human  
CC neurotrophic tyrosine kinase, receptor, type 1 (NTRK1) gene ADZ67903 that  
CC are associated with the age of onset of Alzheimer's disease (AD). They  
CC have also discovered that the copy number of each of these NTRK1  
CC haplotypes affects the age of onset of AD. If an individual has at least  
CC one copy of any of the 112 specified haplotypes, that individual is  
CC defined as having an 'age of onset marker I', and is more likely to have a  
CC later age of onset of AD than an individual having zero copies of any of  
CC the 112 haplotypes, such an individual being defined as 'age of onset  
CC marker II'. Testing for the presence or absence, and copy number, of the  
CC haplotypes is useful for predicting the age at which individuals who are  
CC at increased risk of AD are likely to develop AD and to help confirm a  
CC diagnosis of mild or minimal cognitive impairment (MDI) or AD. Such  
CC knowledge will assist therapy and lifestyle decisions. The correlation of  
CC certain NTRK1 haplotypes with age of AD onset indicates that variation in  
CC the NTRK1 gene should be considered in the development and clinical  
CC trials of drugs for treating MCI, AD and other neurodegenerative  
CC disorders. This correlation also provides a basis for pursuing NTRK1 as a  
CC target for drugs designed to treat cognitive disorders such as MDI, AD  
CC and other neurological diseases or conditions. Information is provided  
CC about the composition of each of 112 haplotypes, namely the location in  
CC the NTRK1 gene of each of the polymorphic sites (PSS) and the identity of  
CC the reference and variant allele at each PS. An individual's genotype for  
CC the set of PSS is obtained by primer extension, allele-specific PCR,  
CC nucleic acid amplification, hybridization, mismatch detection, enzymatic  
CC nucleic acid cleavage or sequencing assay. The present sequence is that  
CC of a reverse primer extension oligonucleotide for detecting PSS in  
CC haplotypes comprising preferred embodiments of age of onset markers I and  
CC II.  
XX  
XX Sequence 10 BP; 2 A; 1 C; 6 G; 1 T; 0 U; 0 Other;  
SQ

Query Match 17.0%; Score 3.4; DB 1; Length 10;  
Best Local Similarity 80.0%; Pred. No. 1.5e+02;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13  
|||  
Db 2 AGACT 6

RESULT 145  
AEA62012  
ID AEA62012 standard; DNA; 10 BP.  
XX  
XX AEA62012;  
AC  
XX  
DT 11-AUG-2005 (first entry)  
XX  
XX NTRK1 gene polymorphic site 8 primer extension oligonucleotide.  
DE  
XX  
XX NTRK1 gene; neurotrophic tyrosine kinase, receptor, type 1;  
KW Alzheimers disease; degeneration; neurological disease;  
KW haplotype mapping; prognosis; primer; ss; SNP detection.  
XX  
OS Homo sapiens.  
XX  
XX WO2005052180-A2.  
PN  
XX  
XX 09-JUN-2005.  
PD  
XX  
XX 22-NOV-2004; 2004WO-US038876.  
PF  
XX  
XX 24-NOV-2003; 2003US-0524636P.  
PR  
XX  
XX (GENA-) GENAISSANCE PHARM INC.  
PA  
XX  
XX Aarsens J, Athanasios M, Brain C, Cohen N, Dain B, Denton RR;  
PI Judson RS, Ozdemir V, Reed CR;  
PI  
XX  
XX WPI; 2005-418015/42.  
DR  
XX  
XX Determining whether an individual has a progression marker I or  
PT progression marker II, useful for predicting an individual's progression  
PT of Alzheimer's disease, by determining whether the individual has any of  
PT the NTRK1 haplotypes.  
XX  
PS Claim 40; SEQ ID NO 53; 108pp; English.  
XX  
XX The present invention relates to genetic markers of the human  
CC neurotrophic tyrosine kinase, receptor, type 1 (NTRK1) gene AEA61960 that  
CC are associated with progression of Alzheimer's disease (AD). 12  
CC Polymorphic sites (PSS) have been discovered in the NTRK1 gene of  
CC Caucasian individuals with AD, and a set of 70 haplotypes having  
CC association with progression of AD have been identified. If an individual  
CC has 0 or 1 copy of any of haplotypes 1-41 and 67-70, or 0 copies of any  
CC of haplotypes 42-66, then that individual is defined as having a  
CC progression marker I and is more likely to exhibit a slower progression  
CC of AD than an individual having 2 copies of any of haplotypes 1-41 and 67  
CC -70, or at least 1 copy of any of haplotypes 42-66, such an individual  
CC being defined as having a progression marker II. Additional haplotypes  
CC may be identified that are in linkage disequilibrium with any of  
CC haplotypes 1-70, referred to as linked haplotypes and substitute  
CC haplotypes of any of haplotypes 1-70, in which one or more of the PSS in  
CC the original haplotype is substituted with another PS, where the allele  
CC at the substituted PS is in linkage disequilibrium with the allele at the  
CC substituting PS. The invention provides methods and kits for determining  
CC whether an individual has a progression marker I or a progression marker  
CC II. A method is also provided for predicting an individual's progression  
CC of AD. The individual is especially a Caucasian diagnosed as having a  
CC cognitive disorder. An individual's genotype for each PS may be obtained  
CC by primer extension, allele-specific PCR, nucleic acid amplification,  
CC hybridization, mismatch-detection, enzymatic nucleic acid cleavage or  
CC sequencing assay. The present sequence is a reverse primer extension  
CC oligonucleotide that can be used to detect the allele at PSS of the NTRK1  
CC gene. The 3' terminus of the oligonucleotide is complementary to the  
CC nucleotide located immediately adjacent to the PS. The oligonucleotide is  
CC included in a claimed kit of the invention used to determine whether an

CC individual has a progression marker I or progression marker II.  
 XX Sequence 10 BP; 2 A; 1 C; 6 G; 1 T; 0 U; 0 Other;  
 SQ Query Match 17.0%; Score 3.4; DB 1; Length 10;  
 Best Local Similarity 80.0%; Pred. No. 1.5e+02;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
 ||||  
 Db 2 AGACT 6

RESULT 146  
 AAZ83176  
 ID AAZ83176 standard; DNA; 10 BP.  
 XX  
 AC AAZ83176;  
 XX  
 DT 07-APR-2000 (first entry)  
 XX  
 DE Metastatic breast tumour cell upregulated transcript tag #2410.  
 XX  
 KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;  
 KW antimetastatic; vaccine; diagnosis; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9965928-A2.  
 XX  
 PD 23-DEC-1999.  
 XX  
 PF 18-JUN-1999; 99WO-US013647.  
 XX  
 PR 19-JUN-1998; 98US-0089853P.  
 PR 19-JUN-1998; 98US-0089997P.  
 PR 19-JUN-1998; 98US-0090039P.  
 PR 19-JUN-1998; 98US-0090040P.  
 PR 19-JUN-1998; 98US-0090041P.  
 XX  
 PA (GENZ ) GENZYME CORP.  
 PA (ROBE/) ROBERTS B L.  
 PA (SHAN/) SHANKARA S.  
 XX  
 PI Roberts BL, Shankara S;  
 XX  
 DR WPI; 2000-106079/09.  
 XX  
 PT Isolated polynucleotides differentially expressed between metastatic and  
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and  
 PT treatment of cancer.  
 XX  
 PS Claim 1; Page 124; 219pp; English.  
 XX

CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts  
 CC that are preferentially transcribed in the metastatic breast tumour  
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942  
 CC to AAZ86677 represent tags corresponding to distinct transcripts that are  
 CC preferentially transcribed in the primary or non-metastatic breast tumour  
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
 CC transcripts can be used for diagnosis, prognosis, monitoring and  
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
 CC by standard immunoassays or hybridisation/amplification reactions.  
 CC Compounds that modulate expression of the transcripts are potentially  
 CC useful for treatment of (metastatic) breast cancer, while promoters from  
 CC the transcripts are used to direct expression, in selected cell types, of  
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
 CC particularly an antigen-encoded sequence for use in gene or cell-based  
 CC vaccines. Polypeptides encoded by the transcripts are also useful in  
 CC vaccines; for diagnosing breast cancer and for raising specific  
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
 CC agents. Host cells that produce the polypeptides can be used to expand

CC and isolate populations of educated, antigen-specific immune effector  
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
 CC immunotherapy  
 XX  
 SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;  
 Query Match 17.0%; Score 3.4; DB 1; Length 10;  
 Best Local Similarity 80.0%; Pred. No. 1.5e+02;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
 ||||  
 Db 4 AGACT 8

RESULT 147  
 AAH63895/c  
 ID AAH63895 standard; cDNA; 10 BP.  
 XX  
 AC AAH63895;  
 XX  
 DT 20-SEP-2001 (first entry)  
 XX  
 DE Human ubiquitously expressed transcriptome sequence SEQ ID NO: 735.  
 XX  
 KW Human; transcriptome; gene expression pattern; cancer; drug screening;  
 KW cancer diagnosis; cell specific gene expression; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200138577-A2.  
 XX  
 PD 31-MAY-2001.  
 XX  
 PF 21-NOV-2000; 2000WO-US031922.  
 XX  
 PR 24-NOV-1999; 99US-00448480.  
 XX  
 PA (UYJO ) UNIV JOHNS HOPKINS.  
 XX  
 PI Velculescu VE, Vogelstein B, Kinzler KW;  
 XX  
 DR WPI; 2001-367706/38.  
 XX  
 PT New isolated polynucleotides, useful for identifying specific cell type,  
 PT such as cancer cell, comprises transcriptomes expressed in particular  
 PT cell types.  
 XX  
 PS Claim 13; Page 56; 94pp; English.  
 XX  
 CC The present invention describes a method of identifying the type of cell  
 CC in a sample, involving determining which of the sequences AAH63161-  
 CC AAH64724 is expressed by the cell. The transcriptomes described in the  
 CC invention are cell-type specific, cancer specific or ubiquitously  
 CC expressed in humans. They can also be used to screen for drugs, reduce  
 CC cancer specific gene expression, standardise expression and restore the  
 CC function of a diseased cell or tissue. The present sequence is one of the  
 CC transcriptomes described in the exemplification of the invention  
 XX  
 SQ Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;  
 Query Match 17.0%; Score 3.4; DB 1; Length 10;  
 Best Local Similarity 80.0%; Pred. No. 1.5e+02;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
 ||||  
 Db 6 AGACT 2

RESULT 148  
 AAP41988  
 ID AAP41988 standard; DNA; 10 BP.



```
XX AAF41988;
AC
XX 23-MAR-2001 (first entry)
XX
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8727.
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
XX nor previously assigned open reading frame; nonannotated ORF; SAGE;
XX serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
XX
XX W0200077214-A2.
XX
XX 21-DEC-2000.
XX
XX 14-JUN-2000; 2000WO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX
XX (UYJO ) UNIV JOHNS HOPKINS.
XX
XX Velculescu V, Vogelstein B, Kinzler K;
XX
XX WPI; 2001-061874/07.
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
XX gene expression (SAGE) tags, useful for studying, monitoring and
XX affecting phases of the cell cycle.
XX
XX Example; Page 311; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
XX coding sequence of a yeast gene selected from a group of 745 NORF (not
XX previously assigned open reading frame; or nonannotated ORF) genes
XX comprising a SAGE (serial analysis of gene expression) tag. Also
XX described are: (1) a method (M1) of using NORF genes to affect the cell
XX cycle comprising administering a NORF gene whose expression varies by at
XX least 10% between any two phases of the cell cycle selected from log
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate
XX antifungal drugs comprising: (a) contacting a test substance with a yeast
XX cell; and (b) monitoring expression of a NORF gene whose expression
XX varies as in M1, where a test substance which modifies the expression of
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for
XX identifying human genes which are involved in cell cycle progression
XX comprising contacting human DNA with a probe which comprises at least 10
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;
XX and (4) a method (M4) for identifying a candidate drug as a member of a
XX class of drugs having a characteristic effect on gene expression in a
XX yeast cell comprising contacting a yeast cell with a candidate drug and
XX monitoring expression in the yeast cell of at least 1 NORF gene whose
XX expression is affected by the class of drugs. The NORF genes may be used
XX to study, monitor and affect phases of the cell cycle, the differentially
XX expressed genes may be used as markers of phases of the cell cycle. The
XX methods may be used to identify candidate drugs which affect the cell
XX cycle and for identification of antifungal drugs. AAF33268 to AAF4064
XX represent SAGE tags used in the exemplification of the present invention.
XX AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
XX method, in the exemplification of the present invention
XX
XX Sequence 10 BP; 2 A; 1 C; 4 G; 3 T; 0 U; 0 Other;
Query Match 17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 9 AGTCT 13
Db 2 AGACT 6

RESULT 150
ABV78460
ID ABV78460 standard; cDNA; 10 BP.
XX
XX AC ABV78460;
XX
XX DT 29-NOV-2002 (first entry)
XX
```

RESULT 149  
AAD25917/c  
ID AAD25917 standard; DNA; 10 BP.  
XX  
AC AAD25917;  
XX  
DT 26-MAR-2002 (first entry)  
XX  
XX Human MC4R gene polymorphism detecting primer #2.  
XX  
XX Human; single nucleotide polymorphism; SNP; melanocortin 4-receptor;  
XX MC4R; haplotype; obesity; screening; allele-specific oligonucleotide;  
XX ASO; gene therapy; anorectic; primer; ss.  
XX  
XX Homo sapiens.  
XX  
XX W0200179222-A2.  
XX  
XX 25-OCT-2001.  
XX  
XX 12-APR-2001; 2001WO-US011943.  
XX  
XX 12-APR-2000; 2000US-0196677P.  
XX  
XX (GENA-) GENAISSANCE PHARM INC.  
XX  
XX Bentivegna SC, Choi JY, Kazemi A, Lee HH, Nandabalan K, Parks KE;  
XX Sausker EA;  
XX  
XX WPI; 2002-082744/11.  
XX  
XX Novel polymorphic variants of melanocortin 4-receptor gene useful in  
XX studying expression and function of the protein, useful for screening  
XX candidate drugs to treat diseases related to the protein activity e.g.  
XX obesity.  
XX  
XX Claim 17; Page 13; 53pp; English.  
XX  
XX The invention relates to single nucleotide polymorphisms (SNP) in human  
XX melanocortin 4-receptor (MC4R) gene. MC4R gene haplotypes are useful for  
XX improving the efficiency and reliability of several steps in the  
XX discovery and development of drugs for treating diseases associated with  
XX MC4R activity, e.g. obesity. MC4R gene is useful in studying the  
XX expression and function of MC4R and in expressing MC4R protein for use in  
XX screening for candidate drugs to treat diseases related to MC4R activity  
XX and in studying the effect of the variation on the biological activity of  
XX MC4R as well as on the binding affinity of candidate drugs targeting  
XX MC4R for the treatment of obesity. MC4R antibody is useful in a variety  
XX of diagnostic and prognostic formats and in therapeutic methods. Allele-  
XX specific oligonucleotide (ASO) is useful as probes and primers, and for  
XX assaying a polymorphism in MC4R gene. MC4R DNA is used in gene therapy.  
XX The present sequence is a primer used to detect polymorphism in human  
XX MC4R gene  
XX  
XX Sequence 10 BP; 1 A; 2 C; 1 G; 6 T; 0 U; 0 Other;  
Query Match 17.0%; Score 3.4; DB 1; Length 10;  
Best Local Similarity 80.0%; Pred. No. 1.5e+02;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 9 AGTCT 13  
Db 6 AGACT 2

RESULT 150  
ABV78460  
ID ABV78460 standard; cDNA; 10 BP.  
XX  
XX AC ABV78460;  
XX  
XX DT 29-NOV-2002 (first entry)  
XX



DE Human Th1 cell preferentially expressed EST SAGE tag, SEQ ID NO:171.  
 XX SAGE tag; serial analysis of gene expression; human; Th1 cell;  
 KW activated T cell; T lymphocyte; immune response; expression pattern;  
 KW preferential expression; immune disorder; EST; expressed sequence tag;  
 KW ss.  
 XX Homo sapiens.  
 XX JP2002186482-A.  
 XX 02-JUL-2002.  
 XX 19-DEC-2000; 2000JP-00385816.  
 XX 19-DEC-2000; 2000JP-00385816.  
 XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.  
 XX WPI; 2002-594261/64.  
 XX Human activated Th1 and Th2 cell expression gene group, useful for the  
 PT diagnosis and treatment of Th1 and Th2-related diseases.  
 XX Claim 19; Page 11; 60pp; Japanese.  
 XX The invention relates to SAGE (serial analysis of gene expression) tags  
 CC representing groups of genes which are expressed in activated human Th1  
 CC and/or Th2 cells. The SAGE tags of this invention consist of a sequence  
 CC of 10 nucleotides located downstream of the 5'-CATG-3' sequence motif  
 CC lying nearest to the polyA region of cDNAs derived from a variety of  
 CC genes. These tags serve to uniquely identify each transcript and can thus  
 CC be used to analyse the pattern of gene expression in particular cell  
 CC types. The invention also relates to proteins encoded by the genes  
 CC expressed in Th1 and/or Th2 cells, antibodies against these proteins, and  
 CC inhibitors of the expression of groups of genes that are expressed in  
 CC either or both the two cell types. Groups of genes expressed in Th1  
 CC and/or Th2 cell types may be used for the diagnosis and treatment of Th1  
 CC and Th2-related disorders. Sequences ABV78390-ABV78560 are SAGE tags  
 CC representing 171 genes which are more highly expressed in Th1 cells  
 CC compared with Th2 cells  
 XX Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;  
 SQ Query Match 17.0%; Score 3.4; DB 1; Length 10;  
 Best Local Similarity 80.0%; Pred. No. 1.5e+02;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 9 AGTCT 13  
 Db ||||  
 1 AGACT 5  
 RESULT 151  
 ABK23710/c  
 ID ABK23710 standard; DNA; 10 BP.  
 XX AC ABK23710;  
 XX 09-APR-2002 (first entry)  
 XX Transcript tag DNA sequence #299 induced or suppressed by N-myc.  
 DE Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;  
 KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;  
 KW myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.  
 XX Homo sapiens.  
 XX WO200185941-A2.  
 XX 15-NOV-2001.  
 XX

PF 11-MAY-2001; 2001WO-NL000361.  
 XX 11-MAY-2000; 2000EP-00201698.  
 PR 29-JUN-2000; 2000EP-00202284.  
 XX (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.  
 XX Versteeg R, Caron HN;  
 PI WPI; 2002-066603/09.  
 DR A new nucleic acid library of myc-dependent downstream genes capable of  
 XX supporting a neoplastic characteristic of cancer is useful to find new  
 PT therapies and diagnoses for cancer.  
 FT Disclosure; Page 57; 69pp; English.  
 XX The present invention relates to a nucleic acid library comprising myc-  
 CC dependent downstream genes or their functional fragments essentially  
 CC capable of supporting a neoplastic character of cancer such as growth,  
 CC invasion or spread. These myc target or tag sequences are identified by  
 CC SAGE (serial analysis of gene expression). The library is useful to find  
 CC new diagnoses and treatments for cancer. The invention is also useful to  
 CC enhance production of recombinant proteins in a production system with  
 CC high expression of endogenous or transfected myc oncogenes. ABK23412-  
 CC ABK23828 represent transcript tag DNA sequences that are activated or  
 CC repressed by N-myc in human neuroblastoma  
 XX Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;  
 SQ Query Match 17.0%; Score 3.4; DB 1; Length 10;  
 Best Local Similarity 80.0%; Pred. No. 1.5e+02;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 9 AGTCT 13  
 Db ||||  
 6 AGACT 2  
 RESULT 152  
 ADA00650/c  
 ID ADA00650 standard; DNA; 10 BP.  
 XX AC ADA00650;  
 XX 06-NOV-2003 (first entry)  
 DT Oligonucleotide microchip associated probe #3.  
 XX discrete porous entity; microchip; cross contamination;  
 KW chemical communication; co-polymerisation; ss; probe.  
 XX Synthetic.  
 XX Key Location/Qualifiers  
 FT modified\_base 1 /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "OTHER= Fluorescein"  
 XX US2003036063-A1.  
 XX 20-FEB-2003.  
 XX 15-AUG-2001; 2001US-00930865.  
 XX 15-AUG-2001; 2001US-00930865.  
 XX (MIRZ/) MIRZABEKOV A.  
 PA (TIMO/) TIMOFEEV E.  
 PA (VASI/) VASILISKOV V.  
 XX Mirzabekov A, Timofeev E, Vasiliskov V;  
 PI

XX WPI; 2003-605713/57.  
 DR Making discrete porous entities containing synthetic and natural  
 PT compounds, useful as biochips, involves contacting each molecule at  
 PT individual positions on insert substrate with compound, and solidifying  
 PT the formed individual mixtures.  
 XX  
 PS Example 2; Fig 5; 11pp; English.  
 XX  
 CC The invention describes a method of making discrete porous entities that  
 CC each contain a different molecule. The method comprises: positioning each  
 CC different molecule at individual positions on an inert substrate;  
 CC contacting each positioned molecule with compound to form individual  
 CC mixtures; and solidifying the mixtures. The inventive method provides  
 CC microchips that minimise any chance for cross contamination and chemical  
 CC communication between entities. The contents of the entities do not mix  
 CC with each other. It provides microchips having higher sensitivity and  
 CC much faster kinetics of hybridisation. It facilitates the production of  
 CC co-polymerised gel pads that can be as small as 3 x 3 microns. This  
 CC sequence represents a associated with a oligonucleotide microchip  
 CC prepared by photoinduced simultaneous co-polymerisation of 4 allyl-  
 CC oligonucleotides.  
 XX  
 SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;  
 Query Match 17.0%; Score 3.4; DB 1; Length 10;  
 Best Local Similarity 80.0%; Pred. No. 1.5e+02;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 9 AGTCT 13  
 ||||  
 DB 9 AGACT 5  
 ||||  
 RESULT 153  
 ABV64201  
 ID ABV64201 standard; cDNA; 11 BP.  
 AC ABV64201;  
 XX 21-OCT-2002 (first entry)  
 DT Human skin EST 1987.  
 DE  
 XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaeic;  
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253774-A2.  
 XX 11-JUL-2002.  
 PD 20-DEC-2001; 2001WO-EP015179.  
 PF 03-JAN-2001; 2001DE-01000127.  
 XX (HENK ) HENKEL KGAA.  
 PA Petersohn D, Conradt M, Hofmann K;  
 XX WPI; 2002-590638/63.  
 DR In vitro identification of skin-expressed genes, useful for determining  
 XX homeostasis and identifying cosmetic or pharmaceutical agents against  
 XX e.g. skin cancer.  
 PS Disclosure; Page 80; 1345pp; German.  
 XX  
 CC The invention relates to in vitro identification (MI) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically

CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (MI) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 XX  
 SQ Sequence 11 BP; 3 A; 1 C; 6 G; 1 T; 0 U; 0 Other;  
 Query Match 17.0%; Score 3.4; DB 1; Length 11;  
 Best Local Similarity 80.0%; Pred. No. 1.6e+02;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 9 AGTCT 13  
 ||||  
 DB 5 AGGCT 9  
 ||||  
 RESULT 154  
 ABV71622  
 ID ABV71622 standard; cDNA; 11 BP.  
 AC ABV71622;  
 XX 21-OCT-2002 (first entry)  
 DT Human skin EST 9408.  
 DE  
 XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaeic;  
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253774-A2.  
 XX 11-JUL-2002.  
 PD 20-DEC-2001; 2001WO-EP015179.  
 PF 03-JAN-2001; 2001DE-01000127.  
 XX (HENK ) HENKEL KGAA.  
 PA Petersohn D, Conradt M, Hofmann K;  
 XX WPI; 2002-590638/63.  
 DR In vitro identification of skin-expressed genes, useful for determining  
 XX homeostasis and identifying cosmetic or pharmaceutical agents against  
 XX e.g. skin cancer.  
 PS Claim 24; Page 303; 1345pp; German.  
 XX  
 CC The invention relates to in vitro identification (MI) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (MI) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 XX  
 SQ Sequence 11 BP; 3 A; 1 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 11;  
 Best Local Similarity 80.0%; Pred. No. 1.6e+02;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
 ||||  
 Db 5 AGGCT 9

RESULT 155  
 ABQ87397  
 ID ABQ87397 standard; cDNA; 11 BP.  
 XX  
 AC ABQ87397;  
 XX  
 DT 10-SEP-2002 (first entry)  
 XX  
 DE Human skin stress/ageing related EST SEQ ID NO 1152.  
 XX  
 KW Human; skin ageing; skin stress; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253773-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 20-DEC-2001; 2001WO-EP015178.  
 XX  
 PR 03-JAN-2001; 2001DE-01000121.  
 XX  
 PA (HENK ) HENKEL KGAA.  
 XX  
 PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 DR WPI; 2002-528865/56.  
 XX  
 XX Identifying genes involved in skin stress and aging, useful e.g. in  
 PT screening for cosmetic or therapeutic agents, based on differential gene  
 PT expression.  
 XX  
 PS Claim 8; Page 85; 325pp; German.  
 XX  
 CC The invention relates to identifying (M1) genes in vitro that, in humans  
 CC or animals, are important for skin ageing and/or skin stress by serial  
 CC analysis of gene expression between mixtures of transcribed and  
 CC optionally translated, genetically encoded factors (A) obtained from  
 CC young and aged skin, to identify that genes that show strong differential  
 CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is  
 CC useful for: identifying markers of skin ageing and/or stress; determining  
 CC skin ageing and/or stress; and identifying or determining the effects of  
 CC pharmaceutical or cosmetic agents for control of skin ageing. The present  
 CC sequence is one of a group of human skin ageing/stress related expressed  
 CC sequence tags (ABQ86246-ABQ87680) of the invention  
 XX  
 SQ Sequence 11 BP; 4 A; 1 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 11;  
 Best Local Similarity 80.0%; Pred. No. 1.6e+02;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
 ||||  
 Db 6 AGACT 10

RESULT 156  
 ABV65400  
 ID ABV65400 standard; cDNA; 11 BP.  
 XX  
 AC ABV65400;  
 XX  
 DT 21-OCT-2002 (first entry)

XX Human skin EST 3186.  
 DE  
 XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaetic;  
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253774-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 20-DEC-2001; 2001WO-EP015179.  
 XX  
 PR 03-JAN-2001; 2001DE-01000127.  
 XX  
 PA (HENK ) HENKEL KGAA.  
 XX  
 PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 DR WPI; 2002-590638/63.  
 XX  
 PT In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 XX  
 PS Disclosure; Page 113; 1345pp; German.  
 XX  
 CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 XX  
 SQ Sequence 11 BP; 4 A; 1 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 11;  
 Best Local Similarity 80.0%; Pred. No. 1.6e+02;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
 ||||  
 Db 6 AGACT 10

RESULT 157  
 ABN09352  
 ID ABN09352 standard; DNA; 17 BP.  
 XX  
 AC ABN09352;  
 XX  
 DT 29-MAY-2002 (first entry)  
 XX  
 DE Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9344.  
 XX  
 KW Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200192524-A2.  
 XX  
 PD 06-DEC-2001.  
 XX

PF 25-MAY-2001; 2001WO-US016981.  
 XX  
 XX 26-MAY-2000; 2000US-0207456P.  
 PR 21-SEP-2000; 2000US-0234687P.  
 PR 27-SEP-2000; 2000US-0236359P.  
 PR 04-OCT-2000; 2000GB-00024263.  
 PR 30-JAN-2001; 2001WO-US000661.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 05-FEB-2001; 2001US-0266860P.  
 XX  
 XX (AEOM-) AEOMICA INC.  
 XX  
 XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX WPI; 2002-179446/23.  
 DR  
 XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
 XX  
 XX Disclosure; SEQ ID NO 9344; 214pp; English.  
 PS  
 XX The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 XX  
 SQ Sequence 17 BP; 6 A; 2 C; 8 G; 1 T; 0 U; 0 Other;  
 Query Match 17.0%; Score 3.4; DB 1; Length 17;  
 Best Local Similarity 80.0%; Pred. No. 1.3e+02;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 9 AGTCT 13  
 Db |||||  
 8 AGGCT 12  
 RESULT 158  
 ABN09353  
 ID ABN09353 standard; DNA; 17 BP.  
 XX  
 AC ABN09353;  
 XX  
 XX 29-MAY-2002 (first entry)  
 XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9345.

XX Human; genome-derived myosin-like protein 1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200192524-A2.  
 PN  
 XX 06-DEC-2001.  
 PD  
 XX 25-MAY-2001; 2001WO-US016981.  
 XX  
 XX 26-MAY-2000; 2000US-0207456P.  
 PR 21-SEP-2000; 2000US-0234687P.  
 PR 27-SEP-2000; 2000US-0236359P.  
 PR 04-OCT-2000; 2000GB-00024263.  
 PR 30-JAN-2001; 2001WO-US000661.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 05-FEB-2001; 2001US-0266860P.  
 XX  
 XX (AEOM-) AEOMICA INC.  
 XX  
 XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX WPI; 2002-179446/23.  
 DR  
 XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
 XX  
 XX Disclosure; SEQ ID NO 9344; 214pp; English.  
 PS  
 XX The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 XX  
 SQ Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;  
 Query Match 17.0%; Score 3.4; DB 1; Length 17;  
 Best Local Similarity 80.0%; Pred. No. 1.3e+02;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 9 AGTCT 13  
 Db |||||  
 7 AGGCT 11

RESULT 159  
ABN09354  
ID ABN09354 standard; DNA; 17 BP.  
XX AC  
XX AC ABN09354;  
XX  
DT 29-MAY-2002 (first entry)  
XX  
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9346.  
XX DE  
XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
KW skeletal muscle disorder; amplicon; screening; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO200192524-A2.  
XX  
XX 06-DEC-2001.  
XX  
XX 25-MAY-2001; 2001WO-US016981.  
XX PF  
XX 26-MAY-2000; 2000US-0207456P.  
XX PR  
XX 21-SEP-2000; 2000US-0234687P.  
XX PR  
XX 27-SEP-2000; 2000US-0236359P.  
XX PR  
XX 04-OCT-2000; 2000GB-00024263.  
XX PR  
XX 30-JAN-2001; 2001WO-US000661.  
XX PR  
XX 30-JAN-2001; 2001WO-US000662.  
XX PR  
XX 30-JAN-2001; 2001WO-US000663.  
XX PR  
XX 30-JAN-2001; 2001WO-US000664.  
XX PR  
XX 30-JAN-2001; 2001WO-US000665.  
XX PR  
XX 30-JAN-2001; 2001WO-US000666.  
XX PR  
XX 30-JAN-2001; 2001WO-US000667.  
XX PR  
XX 30-JAN-2001; 2001WO-US000668.  
XX PR  
XX 30-JAN-2001; 2001WO-US000669.  
XX PR  
XX 05-FEB-2001; 2001WO-US000670.  
XX PR  
XX (ABOM-) AEOMICA INC.  
XX PA  
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
PI WPI; 2002-179446/23.  
XX  
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
PT or as specific biomolecule capture probes for surface-enhanced laser  
PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
XX  
XX Disclosure; SEQ ID NO 9346; 214pp; English.  
XX  
XX The present invention describes a human genome-derived myosin-like  
CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
CC nucleic acids can be used as probes to detect, characterise and quantify  
CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
CC protein variants having desired phenotypic improvements, and for  
CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
CC -1 proteins, as standards in assays used to determine the concentration  
CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
CC capture probes for surface-enhanced laser desorption/ionisation, as  
CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
CC production, and in vaccines or for replacement therapy. The  
CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
CC disorder associated with the expression of hGDMPLP-1, in particular heart  
CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
CC The present sequence represents an oligomer used in the screening of the  
CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO

CC at ftp.wipo.int/pub/published\_pct\_sequence  
XX  
SQ Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;  
Query Match 17.0%; Score 3.4; DB 1; Length 17;  
Beat Local Similarity 80.0%; Pred. No. 1.3e+02;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 9 AGTCT 13  
Db 6 AGGCT 10  
RESULT 160  
ACN72443  
ID ACN72443 standard; DNA; 17 BP.  
XX  
XX ACN72443;  
XX  
XX 02-DEC-2004 (first entry)  
XX DE  
XX Human GDMPLP-1 probe SEQ ID NO:9345.  
XX KW  
XX Human; ss; probe; myosin-like protein-1; hGDMPLP-1;  
KW hGDMPLP-1 agonist; hGDMPLP antagonist; hGDMPLP inhibitor; heart disorder;  
KW skeletal muscle function.  
XX  
XX Homo sapiens.  
XX  
XX US2004137589-A1.  
XX PN  
XX 15-JUL-2004.  
XX PD  
XX 26-NOV-2003; 2003US-00723361.  
XX PF  
XX 26-MAY-2000; 2000US-0207456P.  
XX PR  
XX 21-SEP-2000; 2000US-0234687P.  
XX PR  
XX 27-SEP-2000; 2000US-0236359P.  
XX PR  
XX 04-OCT-2000; 2000GB-00024263.  
XX PR  
XX 30-JAN-2001; 2001WO-US000661.  
XX PR  
XX 30-JAN-2001; 2001WO-US000662.  
XX PR  
XX 30-JAN-2001; 2001WO-US000663.  
XX PR  
XX 30-JAN-2001; 2001WO-US000664.  
XX PR  
XX 30-JAN-2001; 2001WO-US000665.  
XX PR  
XX 30-JAN-2001; 2001WO-US000666.  
XX PR  
XX 30-JAN-2001; 2001WO-US000667.  
XX PR  
XX 30-JAN-2001; 2001WO-US000668.  
XX PR  
XX 30-JAN-2001; 2001WO-US000669.  
XX PR  
XX 05-FEB-2001; 2001US-0266860P.  
XX PR  
XX 25-MAY-2001; 2001US-00866108.  
XX  
XX (GUY/) GU Y.  
XX (JIY/) JI Y.  
XX (PENN/) PENN S G.  
XX (HANZ/) HANZEL D K.  
XX (RANK/) RANK D.  
XX (CHEN/) CHEN W.  
XX (SHAN/) SHANNON M B.  
XX  
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank D, Chen W, Shannon ME;  
PI WPI; 2004-533378/51.  
XX  
XX Novel myosin-like protein-1, useful for treating or preventing disorder  
PT associated with decreased expression or activity of human genome-derived  
PT myosin-like protein-1 such as disorder of heart and/or skeletal muscle  
PT function.  
XX  
XX Disclosure; SEQ ID NO 9345; 0pp; English.  
XX  
XX The invention relates to a novel polypeptide (I) comprising a sequence  
CC (SI) of myosin-like protein-1 (hGDMPLP-1) having 2568 amino acids fully

CC defined in the specification, a fragment of at least 8 amino acids of  
 CC (S1). 95% deviation from (S1) which are conservative substitutions, and  
 CC 65% identity to (S1). A polypeptide of the invention acts as a agonist or  
 CC antagonist of hGDMPLP-1, or as an inhibitor of hGDMPLP-1 activity. A  
 CC pharmaceutical composition of the invention is useful for treating or  
 CC preventing a disorder associated with decreased expression or activity of  
 CC hGDMPLP-1, such as a disorder of heart and/or skeletal muscle function.  
 CC The present sequence represents a 17-mer nucleotide, used in the  
 CC invention for scanning the sequence represented in ACN63103  
 XX  
 SQ Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 17;

Best Local Similarity 80.0%; Pred. No. 1.1e+02;

Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13

Db 7 AGGCT 11

RESULT 161

ACN72442

ID ACN72442 standard; DNA; 17 BP.

AC ACN72442;

DT 02-DEC-2004 (first entry)

DE Human GDMPLP-1 probe SEQ ID NO:9344.

XX Human; ss; probe; myosin-like protein-1; hGDMPLP-1;

KW hGDMPLP-1 agonist hGDMPLP antagonist; hGDMPLP inhibitor; heart disorder;

KW skeletal muscle function.

XX Homo sapiens.

XX US2004137589-A1.

XX 15-JUL-2004.

XX 26-NOV-2003; 2003US-00723361.

XX 26-MAY-2000; 2000US-0207456P.

XX 21-SEP-2000; 2000US-0234687P.

XX 27-SEP-2000; 2000US-0236359P.

XX 04-OCT-2000; 2000GB-00024263.

XX 30-JAN-2001; 2001WO-US000561.

XX 30-JAN-2001; 2001WO-US000662.

XX 30-JAN-2001; 2001WO-US000663.

XX 30-JAN-2001; 2001WO-US000664.

XX 30-JAN-2001; 2001WO-US000665.

XX 30-JAN-2001; 2001WO-US000666.

XX 30-JAN-2001; 2001WO-US000667.

XX 30-JAN-2001; 2001WO-US000668.

XX 30-JAN-2001; 2001WO-US000669.

XX 30-JAN-2001; 2001WO-US000670.

XX 05-FEB-2001; 2001US-0266860P.

XX 25-MAY-2001; 2001US-00866108.

XX (GUYV/) GU Y.

XX (JIYV/) JI Y.

XX (PENN/) PENN S G.

XX (HANZ/) HANZEL D K.

XX (RANK/) RANK D.

XX (CHEN/) CHEN W.

XX (SHAN/) SHANNON M E.

XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank D, Chen W, Shannon ME;

XX WPI; 2004-533378/51.

XX Novel myosin-like protein-1, useful for treating or preventing disorder

PT associated with decreased expression or activity of human genome-derived  
 PT myosin-like protein-1 such as disorder of heart and/or skeletal muscle  
 PT function.

XX Disclosure; SEQ ID NO 9344; Opp; English.

XX The invention relates to a novel polypeptide (I) comprising a sequence  
 CC (S1) of myosin-like protein-1 (hGDMPLP-1) having 2568 amino acids fully  
 CC defined in the specification, a fragment of at least 8 amino acids of  
 CC (S1), 95% deviation from (S1) which are conservative substitutions, and  
 CC 65% identity to (S1). A polypeptide of the invention acts as a agonist or  
 CC antagonist of hGDMPLP-1, or as an inhibitor of hGDMPLP-1 activity. A  
 CC pharmaceutical composition of the invention is useful for treating or  
 CC preventing a disorder associated with decreased expression or activity of  
 CC hGDMPLP-1, such as a disorder of heart and/or skeletal muscle function.  
 CC The present sequence represents a 17-mer nucleotide, used in the  
 CC invention for scanning the sequence represented in ACN63103  
 XX

SQ Sequence 17 BP; 6 A; 2 C; 8 G; 1 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 17;

Best Local Similarity 80.0%; Pred. No. 1.1e+02;

Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13

Db 8 AGGCT 12

RESULT 162

ACN72444

ID ACN72444 standard; DNA; 17 BP.

XX ACN72444;

XX 02-DEC-2004 (first entry)

XX Human GDMPLP-1 probe SEQ ID NO:9346.

XX Human; ss; probe; myosin-like protein-1; hGDMPLP-1;

KW hGDMPLP-1 agonist hGDMPLP antagonist; hGDMPLP inhibitor; heart disorder;

KW skeletal muscle function.

XX Homo sapiens.

XX US2004137589-A1.

XX 15-JUL-2004.

XX 26-NOV-2003; 2003US-00723361.

XX 26-MAY-2000; 2000US-0207456P.

XX 21-SEP-2000; 2000US-0234687P.

XX 27-SEP-2000; 2000US-0236359P.

XX 04-OCT-2000; 2000GB-00024263.

XX 30-JAN-2001; 2001WO-US000561.

XX 30-JAN-2001; 2001WO-US000662.

XX 30-JAN-2001; 2001WO-US000663.

XX 30-JAN-2001; 2001WO-US000664.

XX 30-JAN-2001; 2001WO-US000665.

XX 30-JAN-2001; 2001WO-US000666.

XX 30-JAN-2001; 2001WO-US000667.

XX 30-JAN-2001; 2001WO-US000668.

XX 30-JAN-2001; 2001WO-US000669.

XX 30-JAN-2001; 2001WO-US000670.

XX 05-FEB-2001; 2001US-0266860P.

XX 25-MAY-2001; 2001US-00866108.

XX (GUYV/) GU Y.

XX (JIYV/) JI Y.

XX (PENN/) PENN S G.

XX (HANZ/) HANZEL D K.

XX (RANK/) RANK D.



CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The  
 CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a  
 CC phosphorothioate backbone.

XX SQ Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;  
 Query Match 17.0%; Score 3.4; DB 1; Length 20;  
 Best Local Similarity 80.0%; Pred. No. 1.le+02;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13  
 ||||  
 Db 9 AGACT 5

RESULT 165  
 AAT09601/c  
 ID AAT09601 standard; DNA; 8 BP.  
 XX AC AAT09601;  
 XX AC AAT09601;  
 XX DT 25-MAR-2003 (revised)  
 XX DT 25-JUN-1996 (first entry)  
 XX 3'-primer used for characterisation of human biological samples.  
 XX 3'-primer; human; protein coding region; PCR primer kit;  
 KW characterisation; biological samples; PCR amplification; indexing;  
 KW identification; cloning; analysis; genes; genome mapping;  
 KW disease diagnosis; ss.  
 XX OS Synthetic.  
 XX PN WO9531574-A1.  
 XX PD 23-NOV-1995.  
 XX PF 12-MAY-1995; 95WO-US006032.  
 XX PR 16-MAY-1994; 94US-00242887.  
 XX PA (BGHM ) BRIGHAM & WOMENS HOSPITAL.  
 XX PI Lopeznieto CE, Nigam SK;  
 XX PI WPI; 1996-010958/01.  
 XX DR WPI; 1996-010958/01.  
 XX PT Characterisation of nucleotide sequences using primer pairs - by PCR  
 PT amplification and indexing of amplification prods. w.r.t. primers used  
 PT for genome mapping and disease diagnosis.  
 XX PS Claim 5; Page 44; 72pp; English.  
 XX CC The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which  
 CC target human protein coding regions, together comprise a PCR primer kit  
 CC with 1361 possible primer pairs. The kit is used in a new method for the  
 CC characterisation of nucleic acid sequences obtd. from human biological  
 CC samples, which comprises PCR amplification and indexing of the prods.  
 CC w.r.t the primer pair that hybridised to its delineating subsequences.  
 CC The method may be used in the identification, cloning and analysis of  
 CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-  
 CC 2003 to correct PI field.)  
 XX SQ Sequence 8 BP; 1 A; 3 C; 2 G; 2 T; 0 U; 0 Other;  
 Query Match 16.0%; Score 3.2; DB 1; Length 8;  
 Best Local Similarity 62.5%; Pred. No. 2.8e+02;  
 Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 CTCGAGTC 12  
 |||||  
 Db 8 CTGGAGAC 1

RESULT 166  
 AAT09436  
 ID AAT09436 standard; DNA; 8 BP.  
 XX AC AAT09436;  
 XX AC AAT09436;  
 XX DT 25-MAR-2003 (revised)  
 XX DT 21-JUN-1996 (first entry)  
 XX 5'-primer used for characterisation of human biological samples.  
 XX 5'-primer; human; protein coding region; PCR primer kit;  
 KW characterisation; biological samples; PCR amplification; indexing;  
 KW identification; cloning; analysis; genes; genome mapping;  
 KW disease diagnosis; ss.  
 XX OS Synthetic.  
 XX PN WO9531574-A1.  
 XX PD 23-NOV-1995.  
 XX PF 12-MAY-1995; 95WO-US006032.  
 XX PR 16-MAY-1994; 94US-00242887.  
 XX PA (BGHM ) BRIGHAM & WOMENS HOSPITAL.  
 XX PI Lopeznieto CE, Nigam SK;  
 XX PI WPI; 1996-010958/01.  
 XX DR WPI; 1996-010958/01.  
 XX PT Characterisation of nucleotide sequences using primer pairs - by PCR  
 PT amplification and indexing of amplification prods. w.r.t. primers used  
 PT for genome mapping and disease diagnosis.  
 XX PS Claim 5; Page 44; 72pp; English.  
 XX CC The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which  
 CC target human protein coding regions, together comprise a PCR primer kit  
 CC with 1361 possible primer pairs. The kit is used in a new method for the  
 CC characterisation of nucleic acid sequences obtd. from human biological  
 CC samples, which comprises PCR amplification and indexing of the prods.  
 CC w.r.t the primer pair that hybridised to its delineating subsequences.  
 CC The method may be used in the identification, cloning and analysis of  
 CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-  
 CC 2003 to correct PI field.)  
 XX SQ Sequence 8 BP; 2 A; 2 C; 3 G; 1 T; 0 U; 0 Other;  
 Query Match 16.0%; Score 3.2; DB 1; Length 8;  
 Best Local Similarity 62.5%; Pred. No. 2.8e+02;  
 Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 CTCGAGTC 12  
 |||||  
 Db 8 CTGGAGAC 1

RESULT 167  
 AAZ78224  
 ID AAZ78224 standard; DNA; 10 BP.  
 XX AC AAZ78224;  
 XX AC AAZ78224;  
 XX DT 10-APR-2000 (first entry)  
 XX Human dendritic cell SAGE tag, SEQ ID NO:652.  
 XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;  
 KW APC; monocyte-derived dendritic cell; differential gene expression;  
 KW immunostimulatory cofactor; costimulatory factor; CTL;





CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
 CC by standard immunoassays or hybridisation/amplification reactions.  
 CC Compounds that modulate expression of the transcripts are potentially  
 CC useful for treatment of (metastatic) breast cancer, while promoters from  
 CC the transcripts are used to direct expression, in selected cell types, of  
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
 CC particularly an antigen-encoding sequence for use in gene or cell-based  
 CC vaccines. Polypeptides encoded by the transcripts are also useful in  
 CC vaccines; for diagnosing breast cancer and for raising specific  
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
 CC agents. Host cells that produce the polypeptides can be used to expand  
 CC and isolate populations of educated, antigen-specific immune effector  
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
 CC immunotherapy

SQ Sequence 10 BP; 2 A; 4 C; 3 G; 1 T; 0 U; 0 Other;  
 Query Match 16.0%; Score 3.2; DB 1; Length 10;  
 Best Local Similarity 62.5%; Pred. No. 1.6e+02;  
 Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 CTCGAGTC 12  
 || || ||  
 Db 3 CTCGAGAC 10

RESULT 169  
 AAS95346/c  
 ID AAS95346 standard; DNA; 10 BP.

AC AAS95346;

DT 14-FEB-2002 (first entry)

DE Human Histamine H2 receptor ASO primer extension PCR primer #6.

XX Human; histamine H2 receptor; HRRH2; ss; PCR primer; polymorphic variant;  
 KW haplotyping; genotyping; acid-peptic disorder; mammary cancer;  
 KW gastric carcinoma; allele specific oligonucleotide; ASO;  
 KW primer extension.

XX Homo sapiens.

XX WO200179220-A2.

XX 25-OCT-2001.

XX 12-APR-2001; 2001WO-US011941.

XX 12-APR-2000; 2000US-0196406P.

XX (GENA-) GENAISSANCE PHARM INC.

XX Chew A, Choi JY, Koshy B;

XX WPI; 2002-055249/07.

XX New human histamine H2 receptor (HRRH2) isogene polymorphic variants,  
 PT useful in expressing HRRH2 protein for use in screening for candidate  
 PT drugs to treat diseases related to HRRH2 activity.

XX Claim 17; Page 14; 62pp; English.

XX The invention relates to an isolated polynucleotide comprising a  
 CC polymorphic variant of a reference sequence for human Histamine H2  
 CC receptor (HRRH2) gene, its fragment or complement, and the polymorphic  
 CC variant contains an HRRH2 isogene defined by a haplotype listed in the  
 CC specification. Also disclosed are methods for haplotyping and genotyping  
 CC the HRRH2 gene of an individual, a method for predicting a haplotype pair  
 CC for the HRRH2 gene of an individual, identifying an association between a  
 CC trait and at least one haplotype or haplotype pair of HRRH2 gene, allele  
 CC specific oligonucleotides (ASO) for performing the haplotyping/  
 CC genotyping, a recombinant nonhuman organisms transformed or transfected

CC with the polymorphic variant, the protein expressed by the polymorphic  
 CC variant, an antibody raised against the protein and screening for drugs  
 CC targeting the polypeptide by contacting HRRH2 polymorphic variant with a  
 CC candidate agent and assaying for binding activity. The polymorphisms are  
 CC useful for studying the biological function of HRRH2 gene, as well as in  
 CC identifying drugs targeting this protein for the treatment of disorder  
 CC related to its abnormal expression or function. The polymorphic variants  
 CC may be used in screening for compounds targeting CALM1 to treat a  
 CC specific condition or disease predicted to be associated with HRRH2  
 CC activity, in studying the effect of the variation on the biological  
 CC activity of HRRH2 as well as on the binding affinity of candidate drugs  
 CC targeting HRRH2 for the treatment of acid-peptic disorders of the  
 CC gastrointestinal tract and also possibly human mammary cancer and gastric  
 CC carcinoma. The polymorphism and haplotype data can also be used for  
 CC validating whether HRRH2 is a suitable drug target for drugs to treat acid  
 CC -peptic disorders of the gastrointestinal tract, screening of such drugs  
 CC and reducing bias in clinical trials of such drugs. The present sequence  
 CC is the 3' terminus of an ASO primer extension PCR primer used to detect  
 CC the polymorphisms of the invention

SQ Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 16.0%; Score 3.2; DB 1; Length 10;  
 Best Local Similarity 62.5%; Pred. No. 1.6e+02;  
 Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 3 GTCTCCAG 10  
 | || ||  
 Db 8 GACTGGAG 1

RESULT 170

ABV70379

ID ABV70379 standard; cDNA; 11 BP.

AC ABV70379;

DT 21-OCT-2002 (first entry)

DE Human skin EST 8165.

XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaeic;  
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX Homo sapiens.

XX WO200253774-A2.

XX 11-JUL-2002.

XX 20-DEC-2001; 2001WO-EP015179.

XX 03-JAN-2001; 2001DE-01000127.

XX (HENK ) HENKEL KGAA.

XX Petersohn D, Conradt M, Hofmann K;

XX WPI; 2002-590638/63.

XX In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.

XX Claim 24; Page 261; 1345pp; German.

XX The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or

CC promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the CC skin. The present sequence is that of a human expressed sequence tag CC (EST) of the invention

XX  
SQ Sequence 11 BP; 3 A; 4 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 16.0%; Score 3.2; DB 1; Length 11;  
Best Local Similarity 62.5%; Pred. No. 1.6e+02;  
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 CTCGAGTC 12  
Db 3 CTGGAGAC 10  
||| |||

RESULT 171  
ABV62958  
ID ABV62958 standard; cDNA; 11 BP.  
XX  
AC ABV62958;  
XX  
DT 21-OCT-2002 (first entry)  
XX  
DE Human skin EST 744.  
XX  
KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrheic;  
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200253774-A2.  
XX  
PD 11-JUL-2002.  
XX  
PF 20-DEC-2001; 2001WO-EP015179.  
XX  
PR 03-JAN-2001; 2001DE-01000127.  
XX  
PA (HENK ) HENKEL KGAA.  
XX  
PI Petersohn D, Conradt M, Hofmann K;  
XX  
DR WPI; 2002-590638/63.  
XX  
PT In vitro identification of skin-expressed genes, useful for determining  
PT homeostasis and identifying cosmetic or pharmaceutical agents against  
PT e.g. skin cancer.  
XX  
PS Disclosure; Page 45; 1345pp; German.  
XX  
CC The invention relates to in vitro identification (M1) of genes expressed  
CC in the skin of humans or animals by subjecting a mixture of genetically  
CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
CC so as to identify skin-expressed genes and quantify their expression.  
CC (M1) is useful for identifying genes involved in skin homeostasis; to  
CC determine skin homeostasis and to test agent (A) that maintains or  
CC promotes skin homeostasis or that can be used for treating skin  
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
CC skin. The present sequence is that of a human expressed sequence tag  
CC (EST) of the invention

XX  
SQ Sequence 11 BP; 3 A; 4 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 16.0%; Score 3.2; DB 1; Length 11;  
Best Local Similarity 62.5%; Pred. No. 1.6e+02;  
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 CTCGAGTC 12  
Db 3 CTGGAGAC 10  
||| |||

RESULT 172  
AAV05484/C  
ID AAV05484 standard; DNA; 10 BP.  
XX  
AC AAV05484;  
XX  
DT 01-MAY-1998 (first entry)  
XX  
DE BsmAI restriction recognition site.  
XX  
KW Amplification; nucleic acid sequence; SDA; recognition site;  
KW strand displacement amplification; restriction endonuclease;  
KW alpha-boronated deoxynucleoside triphosphate; BsaI;  
KW hemimodified restriction site; ds.  
XX  
OS Synthetic.  
XX  
PN US5702926-A.  
XX  
PD 30-DEC-1997.  
XX  
PR 22-AUG-1996; 96US-00701270.  
XX  
PR 22-AUG-1996; 96US-00701270.  
XX  
PA (BECT ) BECTON DICKINSON CO.  
XX  
PI Walker GT, Fraiser MS;  
XX  
DR WPI; 1998-076416/07.  
XX  
PT Strand displacement amplification of nucleic acids - using alpha-  
PT boronated deoxy-nucleoside tri-phosphate to create nickable restriction  
PT site.  
XX  
PS Disclosure; Col 6; 7pp; English.  
XX  
CC A novel method for amplifying a target nucleic acid sequence by strand  
CC displacement amplification (SDA) comprises, amplifying the target  
CC sequence in an SDA reaction in which an alpha-boronated deoxynucleoside  
CC triphosphate is incorporated into a double stranded recognition site for  
CC a restriction endonuclease, e.g. the present sequence. This produces a  
CC hemimodified restriction site that is nicked by the restriction  
CC endonuclease during the SDA reaction. Most alpha-boronated dNTP will  
CC mimic a corresponding alpha-thiolated dNTP in essentially all respects as  
CC regards SDA, though amplification efficiency is reduced in SDA reactions  
CC optimised for alpha-thiolated dNTP

XX  
SQ Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 15.0%; Score 3; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 1.6e+02;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTG 3  
Db 8 TTG 6  
||| |||

RESULT 173  
AAF41789  
ID AAF41789 standard; DNA; 10 BP.  
XX  
AC AAF41789;  
XX  
DT 23-MAR-2001 (first entry)  
XX  
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8528.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KW serial analysis of gene expression; antifungal; tag; identification;  
 KW linker; PCR primer; ds.  
 XX  
 XX Saccharomyces cerevisiae.  
 XX  
 XX WO200077214-A2.  
 XX  
 XX 21-DEC-2000.  
 XX  
 XX 14-JUN-2000; 2000WO-US016223.  
 XX  
 XX 16-JUN-1999; 99US-00335032.  
 XX  
 XX (UYJO ) UNIV JOHNS HOPKINS.  
 XX  
 XX Velculescu V, Vogelstein B, Kinzler K;  
 XX WPI; 2001-061874/07.  
 XX  
 XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.  
 XX  
 XX Example; Page 304; 419pp; English.  
 XX  
 CC The present invention describes an isolated DNA molecule comprising a  
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
 CC previously assigned open reading frame; or nonannotated ORF) genes  
 CC comprising a SAGE (serial analysis of gene expression) tag. Also  
 CC described are: (1) a method (M1) of using NORF genes to affect the cell  
 CC cycle comprising administering a NORF gene whose expression varies by at  
 CC least 10% between any two phases of the cell cycle selected from log  
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
 CC cell; and (b) monitoring expression of a NORF gene whose expression  
 CC varies as in M1, where a test substance which modifies the expression of  
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
 CC identifying human genes which are involved in cell cycle progression  
 CC comprising contacting human DNA with a probe which comprises at least 10  
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
 CC and (4) a method (M4) for identifying a candidate drug as a member of a  
 CC class of drugs having a characteristic effect on gene expression in a  
 CC yeast cell comprising contacting a yeast cell with a candidate drug and  
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
 CC expression is affected by the class of drugs. The NORF genes may be used  
 CC to study, monitor and affect phases of the cell cycle, the differentially  
 CC expressed genes may be used as markers of phases of the cell cycle. The  
 CC methods may be used to identify candidate drugs which affect the cell  
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064  
 CC represent SAGE tags used in the exemplification of the present invention.  
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
 CC method, in the exemplification of the present invention  
 XX  
 SQ Sequence 10 BP; 4 A; 0 C; 5 G; 1 T; 0 U; 0 Other;  
 Query Match 15.0%; Score 3; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 9 AGT 11  
 Db |||  
 7 AGT 9  
 RESULT 174  
 AAF69645  
 ID AAF69645 standard; DNA; 10 BP.  
 XX  
 AC AAF69645;  
 XX

DT 18-APR-2001 (first entry)  
 XX Human IL4Ralpha gene probe #285.  
 XX Polymorphism; human; interleukin 4 receptor-alpha; IL4R-alpha;  
 KW allergic disease; probe; ss.  
 XX  
 XX Homo sapiens.  
 XX  
 XX WO200104270-A1.  
 XX  
 XX 18-JAN-2001.  
 XX  
 XX 13-JUL-2000; 2000WO-US019094.  
 XX  
 XX 13-JUL-1999; 99US-0143435P.  
 XX  
 XX (GENA-) GENAISSANCE PHARM INC.  
 XX  
 XX Chew A, Denton RR, Duda A, Nandabalan K, Stephens JC;  
 PI Windemuth AK;  
 PI  
 XX WPI; 2001-103078/11.  
 DR  
 XX New isolated polynucleotide useful for the identification of therapeutics  
 PT in allergic diseases is new.  
 PT  
 PT  
 PS Disclosure; Page 46; 188pp; English.  
 XX  
 CC The present invention relates to polymorphisms of the human interleukin 4  
 CC receptor-alpha gene (IL4R-alpha; see AAF57718 for the reference  
 CC sequence). Polynucleotides comprising polymorphic gene variants are  
 CC useful for therapeutic purposes. For example, where a patient may benefit  
 CC from expression of a particular IL4Ralpha protein isoform, an expression  
 CC vector encoding the isoform may be administered to the patient. It may  
 CC desirable to decrease or block expression of a particular IL4Ralpha  
 CC isogene, which may be done by turning off by transforming a targeted  
 CC organ, tissue or cell population with an expression vector that expresses  
 CC high levels of untranslatable mRNA for the isogene. Specific therapeutics  
 CC identified by these methods may be useful for allergic diseases. The  
 CC present sequence is a probe for human IL4R-alpha  
 XX  
 SQ Sequence 10 BP; 3 A; 1 C; 5 G; 1 T; 0 U; 0 Other;  
 Query Match 15.0%; Score 3; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;  
 Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 8 CAG 10  
 Db |||  
 7 CAG 9  
 RESULT 175  
 AAA81188  
 ID AAA81188 standard; DNA; 8 BP.  
 XX  
 AC AAA81188;  
 XX  
 XX 24-NOV-2000 (first entry)  
 DT  
 XX A. thaliana primer walking octamer SEQ ID NO: 501.  
 DE  
 XX Primer walking; octamer; primer; DNA sequencing; PCR; ss.  
 KW Arabidopsis thaliana.  
 XX  
 OS  
 XX US6083695-A.  
 PN  
 XX 04-JUL-2000.  
 PD  
 XX 21-MAY-1997; 97US-00859954.  
 PF  
 XX

PR 15-APR-1996; 96US-00632782.  
 XX (UYHO-) UNIV HOUSTON.  
 PA (HARD/) HARDIN S H.  
 XX  
 XX Hardin PE, Hardin SH, Homayouni R;  
 PI  
 DR WPI; 2000-474852/41.  
 XX  
 XX Sequencing an unknown DNA molecule for the polymerase chain reaction and  
 PT other primer processes comprises primer walking of octamer  
 PT oligonucleotides.  
 XX  
 XX Claim 1; Col 277-278; 161pp; English.  
 XX  
 XX This invention describes a novel method for sequencing an unknown DNA  
 CC molecule which comprises selecting a library primer from an octamer  
 CC oligonucleotide library consisting of 48 8-bp sequences and corresponding  
 CC complementary sequences, where the library primer is complementary to a  
 CC known sequence adjacent to the unknown sequence or is complementary to a  
 CC sequence in a known extension product. The method is useful for DNA  
 CC nucleotide sequencing, in PCR, and in other processes which make use of  
 CC primers. The octamers are used to identify coding sequences. Primer  
 CC walking using the octamer libraries is advantageous over other sequencing  
 CC methods because it does not require multiple cloning steps nor subsequent  
 CC template preparations, and it is a directed and methodical approach.  
 CC AAA80688-A81253 represent the octamer primers used in the primer walking  
 CC method of the invention  
 XX  
 XX Sequence 8 BP; 3 A; 1 C; 3 G; 1 T; 0 U; 0 Other;  
 SQ  
 Query Match 14.0%; Score 2.8; DB 1; Length 8;  
 Best Local Similarity 66.7%; Pred. No. 2.8e+02;  
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 5 CTCGAG 10  
 Db |||||  
 2 CTGGAG 7  
 RESULT 176  
 ADH69419/C  
 ID ADH69419 standard; DNA; 10 BP.  
 XX  
 AC ADH69419;  
 XX  
 XX 25-MAR-2004 (first entry)  
 DT  
 XX Exon 4/5 junction #2of Blue pigment gene.  
 DE  
 XX Human; Blue pigment gene; retina specific gene; db; cancer; infection;  
 XX cytostatic; GAWTS; genomic amplification with transcript sequencing;  
 KW RAWTS; RNA amplification with transcript sequencing; tRAWTS;  
 KW tissue specific RAWTS; RAWIT;  
 KW RNA amplification with in vitro translation; zoRAWTS; ASAWTS;  
 KW adjacent sequence amplification with transcript sequencing; PASA;  
 KW PCR amplification of specific alleles; PLATS;  
 KW promoter ligation with transcript sequencing.  
 XX  
 XX Homo sapiens.  
 OS  
 XX US2003143553-A1.  
 PN  
 XX 31-JUL-2003.  
 PD  
 XX 07-MAR-2002; 2002US-00094507.  
 PF  
 XX 28-JAN-1988; 88US-00149312.  
 PR 24-JUL-1989; 89US-00385013.  
 PR 12-NOV-1993; 93US-00151461.  
 PR 27-DEC-1994; 94US-00399855.  
 PR 22-FEB-2000; 2000US-00510177.  
 XX

(SOMM/) SOMMER S S.  
 Sommer SS;  
 WPI; 2003-730802/69.  
 Amplifying a sequence of interest present within a nucleic acid molecule  
 for monitoring the progression of cancer by obtaining a sample of the  
 nucleic acid molecule and contacting the sample with an RNA polymerase.  
 Disclosure; Fig 1B; 70pp; English.  
 The invention relates to amplifying a sequence of interest present within  
 a nucleic acid molecule comprising: obtaining a sample of the nucleic acid  
 molecule that contains the sequence of interest; if the nucleic acid  
 is a single-stranded RNA molecule, treating the sample so as to prepare a  
 sample containing DNA molecule that contains a sequence complementary to  
 the sequence of interest; treating the sample to obtain a further sample;  
 contacting the further sample under hybridisation conditions with one  
 oligonucleotide primer that includes at least a promoter and a nucleic  
 acid present within the nucleic acid molecule, where the primer sequence  
 is located adjacent to, and 5' of, the sequence of interest, so that the  
 oligonucleotide primer hybridises with the single-stranded DNA molecule;  
 treating the resulting sample containing the single stranded DNA molecule  
 to which the oligonucleotide primer is hybridised from step (4) with a  
 polymerase under polymerizing conditions so that a DNA extension product  
 of the oligonucleotide primer is synthesised and contains the sequence of  
 interest; treating the sample from step (5) so as to separate the DNA  
 extension product from the single-stranded DNA molecule on which it was  
 synthesised; contacting the resulting sample from step (6) containing the  
 sequence complementary to the sequence of interest under hybridisation  
 conditions, with one oligonucleotide primer; treating the sample  
 containing the single-stranded DNA molecule to which the oligonucleotide  
 primer is hybridised from step (7) with a polymerase so as to synthesise  
 a further DNA extension product; repeating steps (7)-(9), as desired;  
 contacting the sample from step (10) with an RNA polymerase that  
 initiates polymerization from the promoter present, under polymerising  
 conditions, so as to obtain multiple RNA transcripts of each DNA  
 extension product that contains the sequence complementary to the  
 sequence of interest. The promoter is a phage promoter, which is T7, T3  
 or SP6 promoter. The method (and its modifications detailed in the  
 specification) are known as GAWTS (genomic amplification with transcript  
 sequencing), RAWTS (RNA amplification with transcript sequencing), PASA  
 (translation), zoRAWTS (sequencing homologous genes across species)  
 ASAWTS (adjacent sequence amplification with transcript sequencing), PASA  
 (PCR amplification of specific alleles) and PLATS (promoter ligation with  
 transcript sequencing). The method is useful for amplifying a sequence of  
 interest present within a nucleic acid molecule for monitoring the  
 progression of cancer or the efficiency of treatment of cancer or for  
 diagnosing and subtyping infectious agents. The present sequence is a  
 human retina specific blue pigment gene exon 4/5 junction sequence  
 analysed by the method of the invention.  
 Query Match 14.0%; Score 2.8; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 5 CTCGAG 10  
 Db |||||  
 10 CTGGAG 5  
 RESULT 177  
 AAV50258/c  
 ID AAV50258 standard; DNA; 10 BP.  
 XX  
 AC AAV50258;  
 XX  
 DT 21-OCT-1998 (first entry)  
 XX

DE Yeast tag for additional NORF chromosome 4 tag position 381712.  
 XX  
 XX Yeast; Saccharomyces cerevisiae; transcriptome; cell cycle; regulation;  
 KW eukaryotic cell; antifungal; SAGE tag; gene expression;  
 KW serial analysis of gene expression; probe; ss.  
 XX  
 OS Saccharomyces cerevisiae.  
 OS Synthetic.  
 XX  
 XX W09832847-A2.  
 PN  
 XX 30-JUL-1998.  
 XX  
 XX 22-JAN-1998; 98WO-US001216.  
 PF  
 XX 23-JAN-1997; 97US-0035917P.  
 XX  
 XX (UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.  
 PA  
 PA Velculescu VE, Vogelstein B, Kinzler KW;  
 PI WPI; 1998-427943/36.  
 XX  
 XX Yeast transcriptome - useful for modulating eukaryotic cell, for  
 PT screening antifungal agents, and for identifying genes in cell cycle  
 PT progression.  
 PT  
 XX Claim 1; Page 26; 44pp; English.  
 PS  
 XX Yeast transcriptome is encoded by a DNA molecule comprising a yeast gene  
 CC involved in cell cycle progression selected from the group of  
 CC nonannotated ORF (NORF) genes. SAGE (serial analysis gene expression)  
 CC tags for highly expressed genes and NORF genes are given in AAV50051 to  
 CC AAV50345. The present invention describes: (1) a method of using yeast  
 CC genes to modulate the cell cycle which comprises administering to a cell  
 CC an isolated DNA molecule comprising a yeast gene which is involved in  
 CC cell cycle progression selected from differentially expressed genes (SAGE  
 CC tags given in AAV50051 to AAV50345); (2) a method for screening candidate  
 CC antifungal drugs which comprises contacting a test substance with a yeast  
 CC cell and monitoring expression of a yeast gene which is involved in cell  
 CC cycle progression; (3) a method of identifying human genes which are  
 CC involved in cell cycle progression which comprises hybridizing a probe  
 CC comprising at least 10 contiguous nucleotides of a yeast gene which is  
 CC differentially expressed between at least 2 phases selected from the log  
 CC phase, the S phase and the G2/M phase; and (4) a probe for ascertaining  
 CC the phase in the cell cycle, where the probe comprises at least 14  
 CC contiguous nucleotides of a NORF gene (SAGE tags given in AAV50051 to  
 CC AAV50345), or as an array of probes on a solid support  
 XX  
 SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;  
 Query Match 14.0%; Score 2.8; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 5 CTCGAG 10  
 Db |||||  
 7 CTGGAG 2  
 RESULT 178  
 AAZ83592  
 ID AAZ83592 standard; DNA; 10 BP.  
 XX  
 AC AAZ83592;  
 XX  
 DT 07-APR-2000 (first entry)  
 XX  
 DE Metastatic breast tumour cell upregulated transcript tag #2826.  
 XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;  
 KW antimetastatic; vaccine; diagnosis; ss.

XX Homo sapiens.  
 OS  
 XX W09985928-A2.  
 PN  
 XX 23-DEC-1999.  
 PD  
 XX 18-JUN-1999; 99WO-US013647.  
 PF  
 XX 19-JUN-1998; 98US-0089853P.  
 PR 19-JUN-1998; 98US-0089997P.  
 PR 19-JUN-1998; 98US-0090039P.  
 PR 19-JUN-1998; 98US-0090040P.  
 PR 19-JUN-1998; 98US-0090041P.  
 XX  
 XX (GENZ ) GENZYME CORP.  
 PA (ROBE/) ROBERTS B L.  
 PA (SHAN/) SHANKARA S.  
 XX  
 XX Roberts BL, Shankara S;  
 PI WPI; 2000-106079/09.  
 DR  
 XX Isolated polynucleotides differentially expressed between metastatic and  
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and  
 PT treatment of cancer.  
 PT  
 XX Claim 1; Page 134; 219pp; English.  
 PS  
 XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts  
 CC that are preferentially transcribed in the metastatic breast tumour  
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942  
 CC to AAZ86677 represent tags corresponding to distinct transcripts that are  
 CC preferentially transcribed in the primary or non-metastatic breast tumour  
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
 CC transcripts can be used for diagnosis, prognosis, monitoring and  
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
 CC by standard immunoassays or hybridisation/amplification reactions.  
 CC Compounds that modulate expression of the transcripts are potentially  
 CC useful for treatment of (metastatic) breast cancer, while promoters from  
 CC the transcripts are used to direct expression, in selected cell types, of  
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),  
 CC particularly an antigen-encoding sequence for use in gene or cell-based  
 CC vaccines. Polypeptides encoded by the transcripts are also useful in  
 CC vaccines for diagnosing breast cancer and for raising specific  
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic  
 CC agents. Host cells that produce the polypeptides can be used to expand  
 CC and isolate populations of educated, antigen-specific immune effector  
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive  
 CC immunotherapy  
 XX  
 SQ Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;  
 Query Match 14.0%; Score 2.8; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 5 CTCGAG 10  
 Db |||||  
 4 CTGGAG 9  
 RESULT 179  
 AAZ85035/C  
 ID AAZ85035 standard; DNA; 10 BP.  
 XX  
 AC AAZ85035;  
 XX  
 DT 07-APR-2000 (first entry)  
 XX  
 DE Metastatic breast tumour cell downregulated transcript tag #4269.  
 XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
 KW

KW non-metastatic breast tumour tissue; gene therapy; anticancer;  
 KW antimetastatic; vaccine; diagnosis; ss.

OS Homo sapiens.

PN WO9965928-A2.

XX 23-DEC-1999.

XX 18-JUN-1999; 99WO-US013647.

XX 19-JUN-1998; 98US-0089853P.

PR 19-JUN-1998; 98US-0089997P.

PR 19-JUN-1998; 98US-0090039P.

PR 19-JUN-1998; 98US-0090040P.

PR 19-JUN-1998; 98US-0090041P.

XX (GENZ ) GENZYME CORP.

PA (ROBE/) ROBERTS B L.

PA (SHAN/) SHANKARA S.

XX Roberts BL, Shankara S;

PI WPI; 2000-106079/09.

XX WPI; 2000-106079/09.

XX Isolated polynucleotides differentially expressed between metastatic and

PT non-metastatic breast cancer cells, useful for diagnosis, prevention and

PT treatment of cancer.

XX Claim 1; Page 173; 219pp; English.

PS AA280767 to AA283941 represent tags corresponding to distinct transcripts

CC that are preferentially transcribed in the metastatic breast tumour

CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942

CC to AA286677 represent tags corresponding to distinct transcripts that are

CC preferentially transcribed in the primary or non-metastatic breast tumour

CC tissue (i.e. are downregulated in metastatic breast tumour cells). These

CC transcripts can be used for diagnosis, prognosis, monitoring and

CC treatment of breast cancer, particularly where metastatic. Diagnosis is

CC by standard immunoassays or hybridisation/amplification reactions.

CC Compounds that modulate expression of the transcripts are potentially

CC useful for treatment of (metastatic) breast cancer, while promoters from

CC the transcripts are used to direct expression, in selected cell types, of

CC e.g. therapeutic genes (also ribozymes or antisense sequences),

CC particularly an antigen-encoding sequence for use in gene or cell-based

CC vaccines. Polypeptides encoded by the transcripts are also useful in

CC vaccines; for diagnosing breast cancer and for raising specific

CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic

CC agents. Host cells that produce the polypeptides can be used to expand

CC and isolate populations of educated, antigen-specific immune effector

CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive

CC immunotherapy

XX Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

SQ Query Match 14.0%; Score 2.8; DB 1; Length 10;

Best Local Similarity 66.7%; Pred. No. 1.7e+02;

Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10

Db 9 CTGGAG 4

RESULT 180

AACT4005/C

ID AAC74005 standard; cDNA; 10 BP.

XX AAC74005;

AC AAC74005;

XX 02-FEB-2001 (first entry)

DT Human dendritic cell cDNA base sequence oligonucleotide #92.

DE

XX

KW Human; dendritic cell; monocyte; immune system; diagnosis; cancer;

KW autoimmune disease; tumour; ss.

OS Homo sapiens.

PN WO200060074-A1.

XX 12-OCT-2000.

XX 30-MAR-2000; 2000WO-JP002019.

XX 01-APR-1999; 99JP-00095481.

PR (NTSC-) JAPAN SCI & TECHNOLOGY CORP.

XX Hashimoto S, Matsushima K, Suzuki T;

PI WPI; 2000-619172/59.

XX Groups of genes expressed in human dendritic cells at a greater or lesser

PT extent than in monocytes for investigation and diagnosis of autoimmune

PT disease and tumors.

XX Claim 1; Page 10; 95pp; Japanese.

PS The present invention describes a group of genes consisting of 100 genes

CC which are highly expressed in human dendritic cells; a group of genes

CC which are expressed at a higher frequency in human dendritic cells than

CC in human monocytes; and a group of genes which are expressed at lower

CC frequency in human dendritic cells than in human monocytes. Each group of

CC genes are characterised in that cDNAs of these genes respectively have

CC the base sequences of SEQ ID NO:1 to 100 (AAC73914 to AAC74013), SEQ ID

CC NO:101 to 200 (AAC74014 to AAC74113) and SEQ ID NO:201 to 300 (AAC74114

CC to AAC74213), each is continuous with the base sequence 5'-CATG-3'

CC located most closely to the poly-A region. The sequences can be used for

CC the investigation of the role and mechanism of the involvement of

CC dendritic cells in the immune system and for the study and diagnosis of

CC diseases in which dendritic cells play a significant role, e.g. cancers

CC and autoimmune diseases

XX Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

SQ Query Match 14.0%; Score 2.8; DB 1; Length 10;

Best Local Similarity 66.7%; Pred. No. 1.7e+02;

Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10

Db 9 CTGGAG 4

RESULT 181

AAA56168/C

ID AAA56168 standard; DNA; 10 BP.

XX AAA56168;

AC AAA56168;

XX 07-SEP-2000 (first entry)

DT Human monocyte gene Tag oligonucleotide sequence SEQ ID NO:62.

DE Human; monocyte; macrophage; GM-macrophage; M-macrophage; tag;

CC granulocyte-macrophage colony-stimulating factor; characterisation;

CC GM-CSF; identification; diagnosis; gene specificity; oncogenesis;

CC disease onset mechanism; genetic disease; drug development; ss.

XX Homo sapiens.

OS WO200024892-A1.

PN 04-MAY-2000.

XX



PF 28-OCT-1999; 99WO-JP005982.  
 XX  
 PR  
 XX 28-OCT-1998; 98JP-00307532.  
 XX  
 PA (NISC-) JAPAN SCI & TECHNOLOGY CORP.  
 XX  
 XX Hashimoto S, Matsushima K, Suzuki T;  
 PI  
 XX WPI; 2000-350734/30.  
 XX  
 DR Genes most frequently expressed in human monocytes and GM-macrophages and  
 XX M-macrophages studied and with cDNAs characterized, for study of gene  
 PT specificity, disease onset mechanism, drug development and diagnosis.  
 PT  
 XX Claim 1; Page 51; 138pp; Japanese.  
 PS  
 XX The present invention describes 100 human genes, which are expressed most  
 CC frequently in human monocytes. The cDNA of each gene has a sequence fully  
 CC defined in the specification, and lacking the CATG sequence located  
 CC adjacent to polyA region. Also described are: (1) an antibody  
 CC specifically for the protein encoded by any of the genes; (2)  
 CC oligonucleotides obtained from the cDNA sequences; (3) 380 human genes  
 CC which are expressed most frequently in human macrophages, differentiated  
 CC from human monocytes by granulocyte-macrophage colony-stimulating factor,  
 CC the cDNA of each gene has a fully defined sequence, given in the  
 CC specification, lacking the base sequence CATG located most closely to the  
 CC poly A region; (4) an antibody specifically for the protein encoded by  
 CC any of the genes of (3); and (5) oligonucleotides obtained from the cDNA  
 CC sequences of (3). The genes and cDNAs, are used for the study of gene  
 CC specificity and disease onset mechanism e.g. oncogenesis, genetic  
 CC diseases, drug development and diagnosis. AA56107 to AA56586 represent  
 CC specifically claimed oligonucleotide tag sequences for human genes  
 CC expressed in monocytes and macrophages  
 CC  
 XX  
 SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;  
 Query Match 14.0%; Score 2.8; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 5 CTCGAG 10  
 Db || ||  
 9 CTGGAG 4  
 RESULT 182  
 AAH63530/c  
 ID AAH63530 standard; cDNA; 10 BP.  
 XX  
 AC AAH63530;  
 XX  
 DT 20-SEP-2001 (first entry)  
 XX  
 DE Human ubiquitously expressed transcriptome sequence SEQ ID NO: 370.  
 XX  
 KW Human; transcriptome; gene expression pattern; cancer; drug screening;  
 KW cancer diagnosis; cell specific gene expression; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200138577-A2.  
 XX  
 XX 31-MAY-2001.  
 XX  
 PF 21-NOV-2000; 2000WO-US031922.  
 XX  
 PR 24-NOV-1999; 99US-00448480.  
 XX  
 PA (UYJO ) UNIV JOHNS HOPKINS.  
 XX  
 KW Velculescu VE, Vogelstein B, Kinzler KW;  
 XX WPI; 2001-367706/38.  
 DR  
 XX  
 XX New isolated polynucleotides, useful for identifying specific cell type,  
 PT such as cancer cell, comprises transcriptomes expressed in particular  
 PT cell types.  
 XX  
 PS Claim 13; Page 47; 94pp; English.  
 XX  
 CC The present invention describes a method of identifying the type of cell  
 CC in a sample, involving determining which of the sequences AAH63161-  
 CC AAH64724 is expressed by the cell. The transcriptomes described in the  
 CC invention are cell-type specific, cancer specific or ubiquitously  
 CC expressed in humans. They can also be used to screen for drugs, reduce  
 CC cancer specific gene expression, standardise expression and restore the  
 CC function of a diseased cell or tissue. The present sequence is one of the  
 CC transcriptomes described in the exemplification of the invention  
 XX  
 SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;  
 Query Match 14.0%; Score 2.8; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 5 CTCGAG 10  
 Db || ||  
 9 CTGGAG 4  
 RESULT 183  
 AAF38187/c  
 ID AAF38187 standard; DNA; 10 BP.  
 XX  
 AC AAF38187;  
 XX  
 DT 23-MAR-2001 (first entry)  
 XX  
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4926.  
 XX  
 KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KW serial analysis of gene expression; antifungal; tag; identification;  
 KW linker; PCR primer; ds.  
 XX  
 OS Saccharomyces cerevisiae.  
 XX  
 PN WO200077214-A2.  
 XX  
 PD 21-DEC-2000.  
 XX  
 PF 14-JUN-2000; 2000WO-US016223.  
 XX  
 PR 16-JUN-1999; 99US-00335032.  
 XX  
 PA (UYJO ) UNIV JOHNS HOPKINS.  
 XX  
 PI Velculescu V, Vogelstein B, Kinzler K;  
 XX WPI; 2001-061874/07.  
 DR  
 XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.  
 XX  
 PS Example; Page 175; 419pp; English.  
 XX  
 CC The present invention describes an isolated DNA molecule comprising a  
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
 CC previously assigned open reading frame; or nonannotated ORF) genes  
 CC comprising a SAGE (serial analysis of gene expression) tag. Also  
 CC described are: (1) a method (M1) of using NORF genes to affect the cell  
 CC cycle comprising administering a NORF gene whose expression varies by at  
 CC least 10% between any two phases of the cell cycle selected from log  
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast



CC cell; and (b) monitoring expression of a NORF gene whose expression  
 CC varies as in M1, where a test substance which modifies the expression of  
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
 CC identifying human genes which are involved in cell cycle progression  
 CC comprising contacting human DNA with a probe which comprises at least 10  
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
 CC and (4) a method (M4) for identifying a candidate drug as a member of a  
 CC class of drugs having a characteristic effect on gene expression in a  
 CC yeast cell comprising contacting a yeast cell with a candidate drug and  
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
 CC expression is affected by the class of drugs. The NORF genes may be used  
 CC to study, monitor and affect phases of the cell cycle, the differentially  
 CC expressed genes may be used as markers of phases of the cell cycle. The  
 CC methods may be used to identify candidate drugs which affect the cell  
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064  
 CC represent SAGE tags used in the exemplification of the present invention.  
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
 CC method, in the exemplification of the present invention

XX  
 SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10  
 ||||  
 Db 7 CTGGAG 2

RESULT 184  
 AAF39032/C  
 ID AAF39032 standard; DNA; 10 BP.

XX AAF39032;

AC AAF39032;

DT 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5771.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 XX nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 XX serial analysis of gene expression; antifungal; tag; identification;  
 XX linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UJJO ) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.

XX Example; Page 206; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a  
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
 CC previously assigned open reading frame; or nonannotated ORF) genes  
 CC comprising a SAGE (serial analysis of gene expression) tag. Also  
 CC described are: (1) a method (M1) of using NORF genes to affect the cell  
 CC cycle comprising administering a NORF gene whose expression varies by at

CC least 10% between any two phases of the cell cycle selected from log  
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
 CC cell; and (b) monitoring expression of a NORF gene whose expression  
 CC varies as in M1, where a test substance which modifies the expression of  
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
 CC identifying human genes which are involved in cell cycle progression  
 CC comprising contacting human DNA with a probe which comprises at least 10  
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
 CC and (4) a method (M4) for identifying a candidate drug as a member of a  
 CC class of drugs having a characteristic effect on gene expression in a  
 CC yeast cell comprising contacting a yeast cell with a candidate drug and  
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
 CC expression is affected by the class of drugs. The NORF genes may be used  
 CC to study, monitor and affect phases of the cell cycle, the differentially  
 CC expressed genes may be used as markers of phases of the cell cycle. The  
 CC methods may be used to identify candidate drugs which affect the cell  
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064  
 CC represent SAGE tags used in the exemplification of the present invention.  
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
 CC method, in the exemplification of the present invention

XX Sequence 10 BP; 3 A; 3 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10  
 ||||  
 Db 9 CTGGAG 4

RESULT 185

AAF33475/C

ID AAF33475 standard; DNA; 10 BP.

XX AAF33475;

AC AAF33475;

DT 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:214.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 XX nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 XX serial analysis of gene expression; antifungal; tag; identification;  
 XX linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UJJO ) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.

XX Claim 1; Page 26; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a  
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
 CC previously assigned open reading frame; or nonannotated ORF) genes  
 CC comprising a SAGE (serial analysis of gene expression) tag. Also  
 CC described are: (1) a method (M1) of using NORF genes to affect the cell  
 CC cycle comprising administering a NORF gene whose expression varies by at

comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell cycle comprising administering a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M; (2) a method (M2) for screening candidate antifungal drugs comprising: (a) contacting a test substance with a yeast cell; and (b) monitoring expression of a NORF gene whose expression varies as in M1, where a test substance which modifies the expression of the yeast gene is a candidate antifungal drug; (3) a method (M3) for identifying human genes which are involved in cell cycle progression comprising contacting human DNA with a probe which comprises at least 10 contiguous nucleotides of a NORF gene whose expression varies as in M1; and (4) a method (M4) for identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell comprising contacting a yeast cell with a candidate drug and monitoring expression in the yeast cell of at least 1 NORF gene whose expression is affected by the class of drugs. The NORF genes may be used to study, monitor and affect phases of the cell cycle, the differentially expressed genes may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which affect the cell cycle and for identification of antifungal drugs. AAF33268 to AAF44064 represent SAGE tags used in the exemplification of the present invention. CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE method, in the exemplification of the present invention

XX  
SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10  
|||  
Db 7 CTGAG 2

RESULT 186  
ABL60204/c  
ID ABL60204 standard; DNA; 10 BP.  
XX AC ABL60204;  
XX  
DT 22-JUL-2002 (first entry)  
XX  
DE Human MUC1 PCR primer SEQ ID NO 48.  
XX  
KW Human; mucin 1; MUC1; transmembrane protein; SNP; cancer; cytostatic;  
KW single nucleotide polymorphism; haplotyping; genotyping; drug;  
KW antiinflammatory; PCR; primer; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO200226765-A2.  
XX  
PD 04-APR-2002.  
XX  
PF 25-SEP-2001; 2001WO-US030151.  
XX  
PR 28-SEP-2000; 2000US-0236113P.  
XX  
XX (GENA-) GENAISSANCE PHARM INC.  
XX  
PI Chew A, Koshiy B;  
XX  
XX WPI; 2002-405042/43.  
XX  
PT New genetic variants of mucin 1, Transmembrane gene, useful in studying expression and function of protein encoded by the gene and for screening drugs to treat diseases e.g. cancer.  
PT  
XX  
PS Claim 16; Page 14; 75pp; English.  
XX  
XX The invention relates to a polynucleotide (ABL60158, ABL60159) encoding

CC mucin 1/MUC1 (ABB77476), Transmembrane isogene. The invention describes novel genetic variants of the MUC1 gene. The invention is useful for haplotyping/genotyping the MUC1 gene in an individual and identifying an association between a trait and at least one of the haplotypes or haplotype pairs of MUC1 gene. MUC1 is useful for studying the expression and function of MUC1 and expressing MUC1 protein for use in screening for candidate drugs to treat diseases related to MUC1 activity and in studying the effect of the variation on the biological activity of MUC1 as well as on the binding affinity of candidate drugs targeting MUC1 for the treatment of e.g. cancer. MUC1 is further used by the pharmaceutical research scientist to validate MUC1 as a candidate target for and in design of clinical trials of candidate drugs for, treating a specific condition or disease predicted to be associated with MUC1 activity. CC MUC1 antibodies are useful in a variety of diagnostic and prognostic formats and therapeutic methods. The present sequence is that of a PCR primer for detecting MUC1 polymorphisms, useful to the invention

XX  
SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;  
Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 9 AGTCTC 14  
|||  
Db 7 AGACAC 2

RESULT 187  
ABV78336/c  
ID ABV78336 standard; cDNA; 10 BP.  
XX AC ABV78336;  
XX  
DT 29-NOV-2002 (first entry)  
XX  
DE Human ribosomal protein L23 SAGE tag, SEQ ID NO:47.  
XX  
KW SAGE tag; serial analysis of gene expression; human; Thi cell;  
KW activated T cell; T lymphocyte; immune response; expression pattern;  
KW immune disorder; ss.  
XX  
OS Homo sapiens.  
XX  
PN JP2002186482-A.  
XX  
PD 02-JUL-2002.  
XX  
PF 19-DEC-2000; 2000JP-00385816.  
XX  
PR 19-DEC-2000; 2000JP-00385816.  
XX  
XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.  
XX  
XX WPI; 2002-594261/64.  
XX  
XX Human activated Thi and Th2 cell expression gene group, useful for the diagnosis and treatment of Thi and Th2-related diseases.  
XX  
XX Claim 1; Page 8; 60pp; Japanese.  
XX  
XX The invention relates to SAGE (serial analysis of gene expression) tags representing groups of genes which are expressed in activated human Thi and/or Th2 cells. The SAGE tags of this invention consist of a sequence of 10 nucleotides located downstream of the 5'-CARG-3' sequence motif lying nearest to the polyA region of cDNAs derived from a variety of genes. These tags serve to uniquely identify each transcript and can thus be used to analyse the pattern of gene expression in particular cell types. The invention also relates to proteins encoded by the genes expressed in Thi and/or Th2 cells, antibodies against these proteins, and inhibitors of the expression of groups of genes that are expressed in either or both the two cell types. Groups of genes expressed in Thi and/or Th2 cell types may be used for the diagnosis and treatment of Thi

CC and Th2-related disorders. Sequences ABV78290-ABV78339 are SAGE tags  
 CC representing 50 genes which are most highly expressed in Th1 cells  
 XX  
 SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10  
 |||||  
 Db 9 CTGGAG 4

RESULT 188  
 ABK23747/c  
 ID ABK23747 standard; DNA; 10 BP.  
 XX  
 AC ABK23747;  
 XX  
 DT 09-APR-2002 (first entry)  
 XX  
 DE Transcript tag DNA sequence #336 induced or suppressed by N-myc.  
 XX  
 KW Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;  
 KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;  
 KW myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200185941-A2.  
 XX  
 PD 15-NOV-2001.  
 XX  
 PF 11-MAY-2001; 2001WO-NL000361.  
 XX  
 PR 11-MAY-2000; 2000EP-00201698.  
 PR 29-JUN-2000; 2000EP-00202284.  
 XX  
 PA (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.  
 XX  
 PI Versteeg R, Caron HN;  
 XX  
 PS WPI; 2002-066603/09.  
 DR  
 PT A new nucleic acid library of myc-dependent downstream genes capable of  
 PT supporting a neoplastic characteristic of cancer is useful to find new  
 PT therapies and diagnoses for cancer.  
 XX  
 PS Disclosure; Page 58; 69pp; English.  
 XX  
 CC The present invention relates to a nucleic acid library comprising myc-  
 CC dependent downstream genes or their functional fragments essentially  
 CC capable of supporting a neoplastic character of cancer such as growth,  
 CC invasion or spread. These myc target or tag sequences are identified by  
 CC SAGE (serial analysis of gene expression). The library is useful to find  
 CC new diagnoses and treatments for cancer. The invention is also useful to  
 CC enhance production of recombinant proteins in a production system with  
 CC high expression of endogenous or transfected myc oncogenes. ABK23412-  
 CC ABK23828 represent transcript tag DNA sequences that are activated or  
 CC repressed by N-myc in human neuroblastoma  
 XX  
 SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10  
 |||||  
 Db 9 CTGGAG 4

RESULT 189  
 ACA94446/c  
 ID ACA94446 standard; DNA; 10 BP.  
 XX  
 AC ACA94446;  
 XX  
 DT 18-JUL-2003 (first entry)  
 XX  
 DE DNA tag from human transcript elevated in adenomas/cancers #27.  
 XX  
 KW Colorectal cancer; colorectal adenoma; ss; human; renal dipeptidase;  
 KW macrophage inhibitory cytokine; MIC; RDP; faeces; blood;  
 KW kidney proximal tubule.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003022863-A1.  
 XX  
 PD 20-MAR-2003.  
 XX  
 PF 09-SEP-2002; 2002WO-US028518.  
 XX  
 PR 07-SEP-2001; 2001US-0317494P.  
 PR 30-MAY-2002; 2002US-0383805P.  
 XX  
 PA (UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.  
 XX  
 PI Buckhaults P, Kinzler KW, Vogelstein B;  
 XX  
 PS WPI; 2003-313220/30.  
 DR  
 PT Detecting colorectal cancer in a subject, involves detecting macrophage  
 PT inhibitory cytokine or renal dipeptidase or their mRNA in feces or blood  
 PT of the subject.  
 XX  
 PS Disclosure; Page 25; 59pp; English.  
 XX  
 CC The invention relates to detecting CC (colorectal cancer e.g. colorectal  
 CC adenoma), comprising: (a) detecting macrophage inhibitory cytokine (MIC)  
 CC or renal dipeptidase (RDP) in faeces or blood of a subject and comparing  
 CC amount of MIC or RDP detected to that in normal subjects, where an  
 CC elevated amount of MIC or RDP in the subject is an indicator of CC in  
 CC subject; (b) isolating mRNA sample from faeces of a subject, detecting  
 CC MIC or RDP mRNA in the mRNA sample, and comparing amount of MIC or RDP  
 CC mRNA detected to that in normal subjects, where an elevated amount of MIC  
 CC or RDP mRNA in the subject is an indicator of CC in subject; (c)  
 CC isolating epithelial cells from blood of a subject, isolating an mRNA  
 CC sample from faeces of a subject or epithelial cells, detecting MIC or RDP  
 CC mRNA in the mRNA sample, and comparing the amount of MIC or RDP mRNA in  
 CC the mRNA sample to amounts of MIC or RDP mRNA in normal subjects, where  
 CC an elevated amount of MIC or RDP mRNA in the mRNA sample is an indicative  
 CC of CC in the subject; (d) contacting blood or faeces of a subject, with  
 CC an RDP substrate, detecting activity of RDP in the blood or faeces by  
 CC detection of increased reaction product or decreased RDP substrate, and  
 CC comparing the amount of activity of RDP in blood or faeces of the subject  
 CC to that in normal subjects, where an elevated amount of activity of RDP  
 CC in the blood or faeces of the subject is an indicator of CC in the  
 CC subject; (e) administering to a subject an antibody which specifically  
 CC binds to RDP or an inhibitor of RDP, where the antibody or inhibitor is  
 CC labeled with a moiety which is detectable from outside of the subject and  
 CC detecting the moiety in the subject from outside of the subject, where an  
 CC area of localisation of the moiety within the subject but outside the  
 CC proximal tubules of the kidney identifies CC; or (f) administering to a  
 CC subject a substrate for RDP, the substrate being labeled with a  
 CC detectable moiety, isolating faeces or blood from the subject, and  
 CC detecting in the faeces or blood RDP reaction product or decreased  
 CC with the detectable moiety, where increased product or decreased  
 CC substrate in the faeces or blood indicates CC in the subject. The methods  
 CC are useful for detecting colorectal cancer in a subject. The present  
 CC sequence is a DNA tag derived from a human transcript whose expression is  
 CC elevated in colorectal cancer or colorectal adenoma  
 XX  
 SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTCGAG 10  
 ||||  
 Db 9 CTGGAG 4

## RESULT 190

ADL96158  
 ID ADL96158 standard; DNA; 10 BP.

XX AC ADL96158;

XX DT 20-MAY-2004 (first entry)

XX DE CD15+ myeloid cell associated probe seqid 56.

XX KW cytostatic; gene therapy; microarray; gene expression characteristic;  
 KW KW haematopoietic cell; haematopoiesis; myeloid leukaemia; probe;  
 KW KW CD15+ myeloid cell; ss.

XX OS Homo sapiens.

XX PN US2003165949-A1.

XX PD 04-SEP-2003.

XX PF 23-DEC-2002; 2002US-00329465.

XX PR 27-DEC-2001; 2001US-0343826P.

XX PA (WANG/) WANG S M.

XX PA (LEES/) LEE S.

XX PA (CHEN/) CHEN J.

XX PA (ZHOU/) ZHOU G.

XX PA (ROWL/) ROWLEY J D.

XX PI Wang SM, Lee S, Chen J, Zhou G, Rowley JD;

XX PS WPI; 2003-863699/80.

XX PR New microarray for measuring gene expression characteristics of  
 PT hematopoietic cells, useful for preparing a composition for diagnosing or  
 PT treating myeloid leukemia.

XX PS Claim 1; SEQ ID NO 56; 32pp; English.

XX CC The invention describes a microarray for measuring gene expression  
 CC characteristics of haematopoietic cells comprising at least 5  
 CC polynucleotides having distinct sequences. Also described are: a method  
 CC of diagnosing or treating an abnormality associated with haematopoiesis;  
 CC and diagnosing myeloid leukaemia in a patient. The microarray is useful  
 CC for preparing a composition for diagnosing or treating myeloid leukaemia.  
 CC This sequence represents a polynucleotide probe comprising a portion of  
 CC an expressed gene isolated from a population of CD15+ myeloid cells and  
 CC suitable for use in the microarray of the invention.

XX SQ Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTCGAG 10  
 ||||  
 Db 4 CTGGAG 9

## RESULT 191

AD153195/c

ID AD153195 standard; DNA; 10 BP.

XX AC AD153195;

XX DT 22-APR-2004 (first entry)

XX DE Human CD3E primer extension primer terminus #29.

XX KW Human; CD3 antigen epsilon subunit; CD3E; primer; ss; haplotype;  
 KW KW genotype; primer extension.

XX OS Homo sapiens.

XX PN US2004018493-A1.

XX PD 29-JAN-2004.

XX PF 12-JUL-2002; 2002US-00193507.

XX PR 12-JUL-2002; 2002US-00193507.

XX PA (ANAS/) ANASTASIO A E.

XX PA (KAZE/) KAZEMI A.

XX PA (LACH/) LACHOWICZ M.

XX PA (PABO/) PABON V.

XX PA (SHAH/) SHAH N.

XX PI Anastasio AE, Kazemi A, Lachowicz M, Pabon V, Shah N;

XX PS WPI; 2004-122016/12.

XX PR Haplotyping the CD3 antigen, epsilon subunit (CD3E) gene of an individual  
 PT by identifying the phased sequence of nucleotides at polymorphic sites  
 PT PS1-PS16 for at least one copy of the individual's CD3E gene.

XX PS Claim 22; SEQ ID NO 80; 59pp; English.

XX CC The invention relates to haplotyping the CD3 antigen, epsilon subunit  
 CC (CD3E) gene of an individual comprising identifying the phased sequence  
 CC of nucleotides at polymorphic sites PS1-PS16 for at least one copy of the  
 CC individual's CD3E gene and assigning to the individual a CD3E haplotype  
 CC or haplotype pair, given in the specification, that is consistent with  
 CC the phased sequence. Also included are genotyping the CD3E gene of an  
 CC individual, assigning a haplotype pair for the CD3E gene to an  
 CC individual, identifying an association between a trait and at least one  
 CC haplotype or haplotype pair of the CD3E gene, reducing the potential for  
 CC bias in a clinical trial of a candidate drug for treating a disease or  
 CC condition predicted to be associated with CD3E activity, an isolated CD3E  
 CC polynucleotide, a recombinant nonhuman organism transformed or  
 CC transfecting with the isolated polynucleotide and expressing a CD3E  
 CC protein, an isolated fragment of a CD3E isogene (comprising at least 50  
 CC nucleotides in one of the regions of the CD3E gene (AD153116) and one or  
 CC more polymorphisms (PI-PI6), where the selected polymorphism has the  
 CC position given in the specification), screening for compounds targeting  
 CC the CD3E protein to treat a condition or disease predicted to be  
 CC associated with CD3E activity, validating the CD3E protein as a candidate  
 CC target for treating a medical condition predicted to be associated with  
 CC CD3E activity, an isolated oligonucleotide designed to detect a  
 CC polymorphism in the CD3E gene at polymorphic sites PS1-PS16, a kit for  
 CC haplotyping or genotyping the CD3E gene of an individual and a genome  
 CC anthology for the CD3 antigen, epsilon subunit (CD3E) gene which  
 CC comprises two or more CD3E isogenes. The method is useful for haplotyping  
 CC the CD3 antigen, epsilon subunit (CD3E) gene of an individual for  
 CC screening for compounds targeting the CD3E protein to treat a condition  
 CC or disease predicted to be associated with CD3E activity. The present  
 CC sequence is a Human CD3E primer extension primer terminus.

XX SQ Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;  
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

Qy 5 CTCGAG 10
Db 9 CTGGAG 4

RESULT 192
ADS77586/c
ID ADS77586 standard; DNA; 10 BP.
XX AC
XX ADS77586;
XX 30-DEC-2004 (first entry)
XX DE Breast cancer detection oligonucleotide #1368.
XX DE ss; primer; cytostatic; RNA interference; RNAi; gene silencing;
KW antisense oligonucleotide inhibitor; cathepsin K inhibitor;
KW cathepsin L inhibitor; cathepsin F inhibitor;
KW metalloprotease 2 inhibitor; thrombospondin-2 antagonist;
KW collagen antagonist; diagnosis; breast tissue; cancer.
XX OS Homo sapiens.
XX PN W02004085621-A2.
XX PD 07-OCT-2004.
XX PF 22-MAR-2004; 2004WO-US008866.
XX PR 20-MAR-2003; 2003US-0456735P.
XX PA (DAND ) DANA FARBER CANCER INST INC.
XX PI Polyak K, Porter D, Allinen M;
XX WPI; 2004-728732/71.
XX DR Diagnosing breast cancer comprises determining expression levels of a
XX PT gene selected from those differentially expressed in normal or cancerous
XX PT cells of a breast tissue sample including interleukin 1, thrombospondin 1
XX PT and cystatin C.
XX PS Example 2; SEQ ID NO 468; 149pp; English.
XX CC The invention relates to a method of diagnosis (M1) comprising: (a)
XX CC providing a test sample of breast tissue; (b) determining the level of
XX CC expression in the test sample of a gene (e.g. interleukin-8, superoxide
XX CC dismutase 2 and tubulin, alpha 3) selected from Table 1 given in the
XX CC specification, and (c) if the gene is expressed in the test sample at a
XX CC lower level than in a control normal breast tissue sample, diagnosing the
XX CC test sample as containing cancer cells. The method is used for diagnosing
XX CC breast cancer. This sequence corresponds to an oligonucleotide primer
XX CC used in the method of the invention.
XX SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
Db 9 CTGGAG 4

RESULT 194
ADS77754/c
ID ADS77754 standard; DNA; 10 BP.
XX AC
XX ADS77754;
XX 30-DEC-2004 (first entry)
XX DE Breast cancer detection oligonucleotide #1536.
XX DE ss; primer; cytostatic; RNA interference; RNAi; gene silencing;
KW antisense oligonucleotide inhibitor; cathepsin K inhibitor;
KW cathepsin L inhibitor; cathepsin F inhibitor;
KW metalloprotease 2 inhibitor; thrombospondin-2 antagonist;
KW collagen antagonist; diagnosis; breast tissue; cancer.
XX OS Homo sapiens.
XX PN W02004085621-A2.
XX PD 07-OCT-2004.

Query Match 14.0%; Score 2.8; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
Db 9 CTGGAG 4

RESULT 193
ADS76686/c
ID ADS76686 standard; DNA; 10 BP.
XX AC
XX ADS76686;
XX 30-DEC-2004 (first entry)
XX DT
XX

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XX 22-MAR-2004; 2004WO-US008866.
XX
XX 20-MAR-2003; 2003US-0456735P.
XX
XX (DAND ) DANA FARBER CANCER INST INC.
XX
XX Polyak K, Porter D, Allinen M;
XX
XX WPI; 2004-728732/71.
XX
XX Diagnosing breast cancer comprises determining expression levels of a
XX gene selected from those differentially expressed in normal or cancerous
XX cells of a breast tissue sample including interleukin 1, thrombospondin 1
XX and cystatin C.
XX
XX Example 6; SEQ ID NO 1536; 149pp; English.
XX
XX The invention relates to a method of diagnosis (M1) comprising: (a)
XX providing a test sample of breast tissue; (b) determining the level of
XX expression in the test sample of a gene (e.g. interleukin-8, superoxide
XX dismutase 2 and tubulin, alpha 3) selected from Table 1 given in the
XX specification, and (c) if the gene is expressed in the test sample at a
XX lower level than in a control normal breast tissue sample, diagnosing the
XX test sample as containing cancer cells. The method is used for diagnosing
XX breast cancer. This sequence corresponds to an oligonucleotide primer
XX used in the method of the invention.
XX
XX Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 14.0%; Score 2.8; DB 1; Length 10;
XX Best Local Similarity 66.7%; Pred. No. 1.7e+02;
XX Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
Qy 5 CTCGAG 10
Db ||||
9 CTGGAG 4
XX
RESULT 195
AAA80951
ID AAA80951 standard; DNA; 8 BP.
XX
XX AAA80951;
XX
XX 24-NOV-2000 (first entry)
XX
XX A. thaliana primer walking octamer SEQ ID NO: 264.
XX
XX Primer walking; octamer; primer; DNA sequencing; PCR; ss.
XX
XX Arabidopsis thaliana.
XX
XX US6083695-A.
XX
XX 04-JUL-2000.
XX
XX 21-MAY-1997; 97US-00859954.
XX
XX 15-APR-1996; 96US-00632782.
XX
XX (UYHO-) UNIV HOUSTON.
XX (HARD/) HARDIN S H.
XX
XX Hardin PE, Hardin SH, Homayouni R;
XX
XX Arabidopsis thaliana.
XX
XX US6083695-A.
XX
XX 04-JUL-2000.
XX
XX 21-MAY-1997; 97US-00859954.
XX
XX 15-APR-1996; 96US-00632782.
XX
XX (UYHO-) UNIV HOUSTON.
XX (HARD/) HARDIN S H.
XX
XX Hardin PE, Hardin SH, Homayouni R;
XX
XX WPI; 2000-474852/41.
XX
XX Sequencing an unknown DNA molecule for the polymerase chain reaction and
XX other primer processes comprises primer walking of octamer
XX oligonucleotides.
XX
XX Example 8; Col 157-158; 161pp; English.

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XX This invention describes a novel method for sequencing an unknown DNA
XX molecule which comprises selecting a library primer from an octamer
XX oligonucleotide library consisting of 48 8-bp sequences and corresponding
XX complementary sequences, where the library primer is complementary to a
XX known sequence adjacent to the unknown sequence or is complementary to a
XX sequence in a known extension product. The method is useful for DNA
XX nucleotide sequencing, in PCR, and in other processes which make use of
XX primers. The octamers are used to identify coding sequences. Primer
XX walking using the octamer libraries is advantageous over other sequencing
XX methods because it does not require multiple cloning steps nor subsequent
XX template preparations, and it is a directed and methodical approach.
XX AAA80688-A81253 represent the octamer primers used in the primer walking
XX method of the invention
XX
XX Sequence 8 BP; 4 A; 1 C; 3 G; 0 T; 0 U; 0 Other;
XX
XX Query Match 12.0%; Score 2.4; DB 1; Length 8;
XX Best Local Similarity 75.0%; Pred. No. 2.8e+02;
XX Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
Qy 9 AGTC 12
Db ||||
5 AGAC 8
XX
RESULT 196
AAA80762
ID AAA80762 standard; DNA; 8 BP.
XX
XX AAA80762;
XX
XX 24-NOV-2000 (first entry)
XX
XX A. thaliana primer walking octamer SEQ ID NO: 75.
XX
XX Primer walking; octamer; primer; DNA sequencing; PCR; ss.
XX
XX Arabidopsis thaliana.
XX
XX US6083695-A.
XX
XX 04-JUL-2000.
XX
XX 21-MAY-1997; 97US-00859954.
XX
XX 15-APR-1996; 96US-00632782.
XX
XX (UYHO-) UNIV HOUSTON.
XX (HARD/) HARDIN S H.
XX
XX Hardin PE, Hardin SH, Homayouni R;
XX
XX WPI; 2000-474852/41.
XX
XX Sequencing an unknown DNA molecule for the polymerase chain reaction and
XX other primer processes comprises primer walking of octamer
XX oligonucleotides.
XX
XX Example 8; Col 63-64; 161pp; English.
XX
XX This invention describes a novel method for sequencing an unknown DNA
XX molecule which comprises selecting a library primer from an octamer
XX oligonucleotide library consisting of 48 8-bp sequences and corresponding
XX complementary sequences, where the library primer is complementary to a
XX known sequence adjacent to the unknown sequence or is complementary to a
XX sequence in a known extension product. The method is useful for DNA
XX nucleotide sequencing, in PCR, and in other processes which make use of
XX primers. The octamers are used to identify coding sequences. Primer
XX walking using the octamer libraries is advantageous over other sequencing
XX methods because it does not require multiple cloning steps nor subsequent
XX template preparations, and it is a directed and methodical approach.
XX AAA80688-A81253 represent the octamer primers used in the primer walking
XX method of the invention

```

CC method of the invention  
XX SQ Sequence 8 BP; 4 A; 1 C; 3 G; 0 T; 0 U; 0 Other;  
Query Match 12.0%; Score 2.4; DB 1; Length 8;  
Best Local Similarity 75.0%; Pred. No. 2.8e+02;  
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 9 AGTC 12  
Db 3 AGAC 6

RESULT 197  
AAS04430  
ID AAS04430 standard; DNA; 10 BP.  
XX AC AAS04430;  
XX DT 07-SEP-2001 (first entry)  
XX DE Human DAXX DNA primer-extension oligonucleotide #17.  
XX KW Death-associated protein 6; DAXX; polymorphism; haplotype pair; human;  
XX KW immune disorder; autoimmune disease; population diversity; ss;  
XX KW paternity testing; anthropological lineage; forensic application;  
XX KW primer-extension oligonucleotide.  
XX OS Homo sapiens.  
XX PN WO200125245-A2.  
XX PD 12-APR-2001.  
XX PF 05-OCT-2000; 2000WO-US027487.  
XX PR 06-OCT-1999; 99US-0157909P.  
XX PA (GENA-) GENAISSANCE PHARM INC.  
XX PI Chew A, Choi JV, Denton RR, Nandabalan K, Stephens JC;  
XX WPI; 2001-308220/32.  
XX New human death-associated protein 6 (DAXX) gene variants comprising 19  
PT polymorphic sites useful in studying the effect of variation on the  
PT biological activity of DAXX and in developing drugs targeting the  
PT protein.  
XX Disclosure; Page 20; 97pp; English.

XX SQ Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;  
Query Match 12.0%; Score 2.4; DB 1; Length 10;  
Best Local Similarity 75.0%; Pred. No. 1.8e+02;  
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 9 AGTC 12  
Db 5 AGAC 8

RESULT 198  
AAF42997/C  
ID AAF42997 standard; DNA; 10 BP.  
XX AC AAF42997;  
XX DT 23-MAR-2001 (first entry)  
XX DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:11136.  
XX KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
XX KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
XX KW serial analysis of gene expression; antifungal; tag; identification;  
XX KW linker; PCR primer; ds.  
XX OS Saccharomyces cerevisiae.  
XX PN WO200077214-A2.  
XX PD 21-DEC-2000.  
XX PF 14-JUN-2000; 2000WO-US016223.  
XX PR 16-JUN-1999; 99US-00335032.  
XX PA (UYJO) UNIV JOHNS HOPKINS.  
XX PI Velculescu V, Vogelstein B, Kinzler K;  
XX WPI; 2001-061874/07.  
XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
PT gene expression (SAGE) tags, useful for studying, monitoring and  
PT affecting phases of the cell cycle.  
XX Example; Page 347; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a  
CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
CC previously assigned open reading frame; or nonannotated ORF) genes  
CC comprising a SAGE (serial analysis of gene expression) tag. Also  
CC described are: (1) a method (M1) of using NORF genes to affect the cell  
CC cycle comprising administering a NORF gene whose expression varies by at  
CC least 10% between any two phases of the cell cycle selected from log  
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
CC cell; and (b) monitoring expression of a NORF gene whose expression  
CC varies as in M1, where a test substance which modifies the expression of  
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
CC identifying human genes which are involved in cell cycle progression  
CC comprising contacting human DNA with a probe which comprises at least 10  
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
CC and (4) a method (M4) for identifying a candidate drug as a member of a  
CC class of drugs having a characteristic effect on gene expression in a  
CC yeast cell comprising contacting a yeast cell with a candidate drug and  
CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
CC expression is affected by the class of drugs. The NORF genes may be used  
CC to study, monitor and affect phases of the cell cycle, the differentially  
CC expressed genes may be used as markers of phases of the cell cycle. The  
CC methods may be used to identify candidate drugs which affect the cell  
CC cycle and for identification of antifungal drugs. AAF33368 to AAF4064



CC represent SAGE tags used in the exemplification of the present invention.  
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
CC method, in the exemplification of the present invention  
XX  
SQ Sequence 10 BP; 0 A; 4 C; 1 G; 5 T; 0 U; 0 Other;  
Query Match 12.0%; Score 2.4; DB 1; Length 10;  
Best Local Similarity 75.0%; Pred. No. 1.8e+02;  
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 7 CCAG 10  
| | |  
Db 8 CGAG 5  
| | |  
RESULT 199  
ADP47134  
ID ADP47134 standard; DNA; 10 BP.  
XX  
AC ADP47134;  
XX  
DT 09-SEP-2004 (first entry)  
XX  
XX Human phospholipase A2-specific mAb heavy chain DNA sequence #14.  
DE XX  
XX human; monoclonal antibody; phospholipase A2; PLA2;  
KW inflammatory disorder; degenerative disorder;  
KW joint inflammatory reaction; skin inflammatory reaction;  
KW blood vessels inflammatory reaction; arthritis; psoriasis; asthma;  
KW Alzheimer's disease; atherosclerosis; restenosis; heavy chain; ds.  
XX  
OS Homo sapiens.  
XX  
PN WO2004050850-A2.  
XX  
PD 17-JUN-2004.  
XX  
PF 02-DEC-2003; 2003WO-US038234.  
XX  
PR 02-DEC-2002; 2002US-0430724P.  
XX  
PA (ABGE-) ABGENIX INC.  
PA (LEXI-) LEXICON GENETICS INC.  
XX  
PI Landes GM, Haak-Frendscho M, Chen L, Lee YR, Liang ML, Feng X;  
PI Jia X, Nocerini MR;  
XX  
DR WPI; 2004-461119/43.  
XX  
XX New human monoclonal antibody that binds to phospholipase A2 (PLA2),  
PT useful for treating inflammatory conditions, e.g. arthritis, psoriasis,  
PT asthma, Alzheimer's disease, atherosclerosis, or restenosis.  
XX  
PS Example 5; SEQ ID NO 49; 128pp; English.  
XX  
XX The invention comprises a human monoclonal antibody that binds to  
CC phospholipase A2 (PLA2). The monoclonal antibody of the invention is  
CC useful in the preparation of a medicament for the treatment of  
CC inflammatory and degenerative disorders stemming from inflammatory  
CC reactions in the joints, skin, and blood vessels, arthritis, psoriasis,  
CC asthma, Alzheimer's disease, atherosclerosis, and restenosis. The present  
CC nucleic acid represents a human PLA2-specific monoclonal antibody heavy  
CC chain DNA sequence.  
XX  
SQ Sequence 10 BP; 3 A; 1 C; 5 G; 1 T; 0 U; 0 Other;  
Query Match 12.0%; Score 2.4; DB 1; Length 10;  
Best Local Similarity 75.0%; Pred. No. 1.8e+02;  
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 3 GTCT 6  
| | |  
Db 4 GACT 7

RESULT 200  
AAF43826/C  
ID AAF43826 standard; DNA; 10 BP.  
XX  
AC AAF43826;  
XX  
DT 23-MAR-2001 (first entry)  
XX  
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:11965.  
DE XX  
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
KW serial analysis of gene expression; antifungal; tag; identification;  
KW linker; PCR primer; ds.  
XX  
OS Saccharomyces cerevisiae.  
XX  
PN WO200077214-A2.  
XX  
PD 21-DEC-2000.  
XX  
XX 14-JUN-2000; 2000WO-US016223.  
PF  
XX 16-JUN-1999; 99US-00335032.  
PR  
XX (UYJO ) UNIV JOHNS HOPKINS.  
PA  
XX Velculescu V, Vogelstein B, Kinzler K;  
PI  
XX WPI; 2001-061874/07.  
DR  
XX  
XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
PT gene expression (SAGE) tags, useful for studying, monitoring and  
PT affecting phases of the cell cycle.  
XX  
PS Example; Page 377; 419pp; English.  
XX  
XX The present invention describes an isolated DNA molecule comprising a  
CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
CC previously assigned open reading frame; or nonannotated ORF) genes  
CC comprising a SAGE (serial analysis of gene expression) tag. Also  
CC described are: (1) a method (M1) of using NORF genes to affect the cell  
CC cycle comprising administering a NORF gene whose expression varies by at  
CC least 10% between any two phases of the cell cycle selected from log  
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
CC cell; and (b) monitoring expression of a NORF gene whose expression  
CC varies as in M1, where a test substance which modifies the expression of  
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
CC identifying human genes which are involved in cell cycle progression  
CC comprising contacting human DNA with a probe which comprises at least 10  
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
CC and (4) a method (M4) for identifying a candidate drug as a member of a  
CC class of drugs having a characteristic effect on gene expression in a  
CC yeast cell comprising contacting a yeast cell with a candidate drug and  
CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
CC expression is affected by the class of drugs. The NORF genes may be used  
CC to study, monitor and affect phases of the cell cycle, the differentially  
CC expressed genes may be used as markers of phases of the cell cycle. The  
CC methods may be used to identify candidate drugs which affect the cell  
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064  
CC represent SAGE tags used in the exemplification of the present invention.  
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
CC method, in the exemplification of the present invention  
XX  
SQ Sequence 10 BP; 0 A; 3 C; 1 G; 6 T; 0 U; 0 Other;  
Query Match 12.0%; Score 2.4; DB 1; Length 10;  
Best Local Similarity 75.0%; Pred. No. 1.8e+02;  
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;



Qy 9 AGTC 12  
|||  
Db 6 AGAC 3

Best Local Similarity 75.0%; Pred. No. 1.8e+02;  
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

RESULT 201  
AAF41634/C  
ID AAF41634 standard; DNA; 10 BP.  
XX AC AAF41634;  
XX 23-MAR-2001 (first entry)  
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8373.  
XX Yeast; Saccharomyces cerevisiae; Characterisation; cell cycle; NORF;  
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
KW serial analysis of gene expression; antifungal; tag; identification;  
KW linker; PCR primer; ds.  
XX Saccharomyces cerevisiae.  
XX WO200077214-A2.  
XX 21-DEC-2000.  
XX 14-JUN-2000; 2000WO-US016223.  
XX 16-JUN-1999; 99US-00335032.  
XX (UWJO ) UNIV JOHNS HOPKINS.  
XX Velculescu V, Vogelstein B, Kinzler K;  
XX WPI; 2001-061874/07.  
XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
PT gene expression (SAGE) tags, useful for studying, monitoring and  
PT affecting phases of the cell cycle.  
XX Example; Page 299; 419pp; English.  
XX The present invention describes an isolated DNA molecule comprising a  
CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
CC previously assigned open reading frame; or nonannotated ORF) genes  
CC comprising a SAGE (serial analysis of gene expression) tag. Also  
CC described are: (1) a method (M1) of using NORF genes to affect the cell  
CC cycle comprising administering a NORF gene whose expression varies by at  
CC least 10% between any two phases of the cell cycle selected from log  
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
CC cell; and (b) monitoring expression of a NORF gene whose expression  
CC varies as in M1, where a test substance which modifies the expression of  
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
CC identifying human genes which are involved in cell cycle progression  
CC comprising contacting human DNA with a probe which comprises at least 10  
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
CC and (4) a method (M4) for identifying a candidate drug as a member of a  
CC class of drugs having a characteristic effect on gene expression in a  
CC yeast cell comprising contacting a yeast cell with a candidate drug and  
CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
CC expression is affected by the class of drugs. The NORF genes may be used  
CC to study, monitor and affect phases of the cell cycle, the differentially  
CC expressed genes may be used as markers of phases of the cell cycle. The  
CC methods may be used to identify candidate drugs which affect the cell  
CC cycle and for identification of antifungal drugs. AAF33288 to AAF4064  
CC represent SAGE tags used in the exemplification of the present invention.  
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
CC method, in the exemplification of the present invention  
XX  
XX Sequence 10 BP; 0 A; 4 C; 1 G; 5 T; 0 U; 0 Other;

Query Match 12.0%; Score 2.4; DB 1; Length 10;

Best Local Similarity 75.0%; Pred. No. 1.8e+02;  
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

RESULT 202  
AAS95397  
ID AAS95397 standard; DNA; 10 BP.  
XX AC AAS95397;  
XX 14-FEB-2002 (first entry)  
XX Human ICAM2 gene allele-specific oligonucleotide PCR primer #2.  
XX Human; intercellular adhesion molecule 2; ICAM2; haplotyping; ss;  
KW haplotype pair; single nucleotide polymorphism; genotyping; PCR primer;  
KW gene therapy; drug screening; anti-HIV; antiinflammatory; probe;  
KW human immunodeficiency virus; sequencing primer.  
XX Homo sapiens.  
XX WO200185918-A1.  
XX 15-NOV-2001.  
XX 07-MAY-2001; 2001WO-US014714.  
XX 05-MAY-2000; 2000US-0201946P.  
XX (GENA-) GENAISSANCE PHARM INC.  
XX Chew A, Choi JY, Denton RR, Kliem SE, Lee HH, Nandabalan K;  
XX WPI; 2002-055590/07.  
XX Novel polynucleotide containing polymorphisms in intercellular adhesion  
PT molecule 2 gene, useful in developing drugs for treating human  
PT immunodeficiency virus infection and inflammatory diseases.  
XX Claim 18; Page 13; 81pp; English.  
XX The invention relates to single nucleotide polymorphisms in the gene  
CC encoding human intercellular adhesion molecule 2 (ICAM2). A method for  
CC haplotyping the ICAM2 gene in an individual comprises identifying the  
CC nucleotide at one or more polymorphic sites and determining whether one  
CC of the copies of the gene is defined by one of the ICAM2 haplotypes given  
CC in the specification or whether both copies are defined by a haplotype  
CC pair. This method is useful in genotyping, whereby all possible haplotype  
CC pairs can be assigned to specific genotypes. An association between a  
CC trait and a haplotype or haplotype pair of the ICAM2 gene can be  
CC identified by comparing the frequency of the haplotype or haplotype pair  
CC in a population exhibiting the trait with the frequency of the haplotype  
CC or haplotype pair in a reference population, where a higher haplotype  
CC frequency in the trait population indicates the trait is associated with  
CC the haplotype or haplotype pair. ICAM2 and its corresponding DNA are used  
CC for studying the expression and function of ICAM2 for use in screening  
CC for candidate drugs to treat diseases related to ICAM2 activity, such as  
CC HIV infection and inflammatory diseases. The sequences are also useful  
CC for studying the effect of variation on the biological activity of ICAM2  
CC as well as on the binding affinity of candidate drugs targeting ICAM2.  
CC Sequences AAS95362-AAS95417 and AAS95419-AAS95442 represent allele-  
CC specific oligonucleotide probes, sequencing primers, PCR primers and cDNA  
CC encoding human ICAM2  
XX  
XX Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 12.0%; Score 2.4; DB 1; Length 10;

Best Local Similarity 75.0%; Pred. No. 1.8e+02;  
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTC 12  
 |||  
 Db 6 AGAC 8

RESULT 203  
 AAS97350/c  
 ID AAS97350 standard; DNA; 10 BP.  
 XX  
 AC AAS97350;  
 XX  
 DT 12-MAR-2002 (first entry)  
 XX  
 DE Human CRYBB1 gene ASO primer extension PCR primer 3' end #9.  
 XX  
 KW Human; crystallin beta B1; CRYBB1; chromosome 22q12.1; ophthalmological;  
 KW cataract; allele specific oligonucleotide; ASO; ss; haplotype;  
 KW genotyping; transgenic animal; PCR primer; primer extension.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200185998-A1.  
 XX  
 PD 15-NOV-2001.  
 XX  
 PF 07-MAY-2001; 2001WO-US014715.  
 XX  
 PR 05-MAY-2000; 2000US-0202253P.  
 XX  
 PA (GENA-) GENAISSANCE PHARM INC.  
 XX  
 PI Choi JY, Kazemi A, Kliem SE, Koshy B, Rounds E;  
 XX  
 DR WPI; 2002-062253/08.  
 XX  
 PT Novel polymorphic variants of crystallin, beta B1 useful in studying  
 PT expression and function of the protein, useful for screening candidate  
 PT drugs to treat diseases e.g. cataract.  
 XX  
 PS Claim 17; Page 13; 94pp; English.  
 XX  
 CC The invention relates to an isolated polynucleotide comprising a sequence  
 CC which is a polymorphic variant of a reference sequence for crystallin,  
 CC beta B1 (CRYBB1, located on chromosome 22q12.1) gene or their fragment,  
 CC where the polymorphic variant comprises a CRYBB1 isogene defined by a  
 CC haplotype from haplotypes 1-16 as given in the specification. Also  
 CC included are a transgenic non-human animal transformed or transfected  
 CC with the polymorphic variant, a computer system for storing and analysing  
 CC polymorphism data for CRYBB1 gene, a genome anthology for the CRYBB1 gene  
 CC which comprises the defined CRYBB1 isogenes, methods of determining an  
 CC individuals haplotype or genotype as well as methods of determining the  
 CC association of a particular haplotype with a disease or trait and a  
 CC composition comprising at least one genotyping oligonucleotide  
 CC (especially allele-specific oligonucleotides (ASO)) for detecting a  
 CC polymorphism in the CRYBB1. The isogenes or haplotypes are useful for  
 CC improving the efficiency and reliability of several steps in the  
 CC discovery and development of drugs for treating diseases associated with  
 CC CRYBB1 activity, e.g. cataract. and can also be used by the  
 CC pharmaceutical research scientist to validate CRYBB1 as a candidate  
 CC target for, and in design of clinical trials of candidate drugs for,  
 CC treating a specific condition drugs or disease predicted to be associated  
 CC with CRYBB1 activity. The ASOs are useful as probes and primers, and for  
 CC assaying a polymorphism in the target region. The present sequence is the  
 CC allele specific 3' end of a PCR primer used in primer extension  
 CC experiment to detect polymorphisms in CRYBB1  
 XX  
 SQ Sequence 10 BP; 0 A; 4 C; 2 G; 4 T; 0 U; 0 Other;  
 Query Match 12.0%; Score 2.4; DB 1; Length 10;  
 Best Local Similarity 75.0%; Pred. No. 1.8e+02;  
 Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTC 12  
 |||  
 Db 5 AGAC 8

RESULT 204  
 ABF03676  
 ID ABF03676 standard; DNA; 13 BP.  
 XX  
 AC ABF03676;  
 XX  
 DT 21-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide SEQ ID NO 103673 for detecting SNP TSC0025934.  
 XX  
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIG-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 103673; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB102073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 13 BP; 5 A; 1 C; 6 G; 1 T; 0 U; 0 Other;  
 Query Match 12.0%; Score 2.4; DB 1; Length 13;  
 Best Local Similarity 75.0%; Pred. No. 1.6e+02;  
 Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTC 12  
 |||  
 Db 4 AGAC 7

RESULT 205  
 ABF03677/c  
 ID ABF03677 standard; DNA; 13 BP.  
 XX  
 AC ABF03677;  
 XX  
 DT 21-FEB-2002 (first entry)  
 XX

DE Oligonucleotide SEQ ID NO 103674 for detecting SNP TSC0025934.  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX Homo sapiens.  
 XX WO200177384-A2.  
 XX 18-OCT-2001.  
 XX 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.  
 XX (EPIG-) EPIGENOMICS AG.  
 XX Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX Claim 1; SEQ ID NO 103674; 29pp + Sequence Listing; German.  
 XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: the sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX Sequence 13 BP; 1 A; 6 C; 1 G; 5 T; 0 U; 0 Other;  
 XX Query Match 12.0%; Score 2.4; DB 1; Length 13;  
 XX Best Local Similarity 75.0%; Pred. No. 1.6e+02;  
 XX Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Qy 9 AGTC 12  
 Db 10 AGAC 7  
 RESULT 206  
 ADQ33489  
 ID ADQ33489 standard; DNA; 11 BP.  
 XX AC ADQ33489;  
 XX 23-SEP-2004 (first entry)  
 DE Human facial skin-associated DNA fragment SEQ ID NO 1579.  
 KW facial skin; human; serial analysis of gene expression; SAGE;  
 KW homeostasis; biochip; cosmetic; pharmaceutical; ds.  
 XX Homo sapiens.  
 XX OS  
 XX DE10260928-A1.  
 XX 08-JUL-2004.  
 XX 20-DEC-2002; 2002DE-01060928.  
 XX

PR 20-DEC-2002; 2002DE-01060928.  
 XX (HENK ) HENKEL KGAA.  
 XX Petersohn D, Schlotmann K, Gassenmeier T, Holtkoetter O;  
 PI Conrad M, Hofmann K;  
 XX WPI; 2004-518855/50.  
 XX In vitro identification of genes important for facial skin, useful for  
 XX assessing homeostasis and in screening for pharmaceutical or cosmetic  
 XX agents, based on differential expression analysis.  
 XX Claim 5; SEQ ID NO 1579; 57pp; German.  
 XX This invention describes a novel in vitro method for identifying genes  
 CC that are significant for facial skin in humans. The method comprises  
 CC recovering, from facial skin, a first mixture of genetically expressed  
 CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or  
 CC their fragments), recovering a second, similar mixture from some other  
 CC human tissue, preferably skin from a protected area, especially from the  
 CC breast and subjecting the mixtures to serial analysis of gene expression  
 CC (SAGE) to identify those genes for which expression is markedly different  
 CC between facial skin and the other tissue. The invention also describes an  
 CC in vitro method for determining homeostasis of human facial skin; a test  
 CC kit which comprises a solid support (flexible or rigid) on which are  
 CC immobilised probes that bind specifically to the factors of interest and  
 CC a biochip for determining homeostasis of human facial skin. The products  
 CC of the invention are also used in a method which determines activity of  
 CC cosmetic and pharmaceutical agents for use against disorders or  
 CC disturbances of the homeostasis of human skin and a screening method for  
 CC identifying cosmetic and pharmaceutical agents. The method allows  
 CC identification of as many as possible of the genes important for facial  
 CC skin and thus of a very wide range of potential therapeutic and cosmetic  
 CC agents. ADQ31911-ADQ31511 represent human DNA Tag fragments used to  
 CC identify the facial skin-associated genes described in the invention.  
 XX Sequence 11 BP; 5 A; 1 C; 4 G; 1 T; 0 U; 0 Other;  
 XX Query Match 11.0%; Score 2.2; DB 1; Length 11;  
 XX Best Local Similarity 57.1%; Pred. No. 1.8e+02;  
 XX Matches 4; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 Qy 9 AGTCTCT 15  
 Db 3 AGAAACT 9  
 RESULT 207  
 AAF38748  
 ID AAF38748 standard; DNA; 10 BP.  
 XX AC AAF38748;  
 XX 23-MAR-2001 (first entry)  
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5487.  
 XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KW serial analysis of gene expression; antifungal; tag; identification;  
 KW linker; PCR primer; ds.  
 XX Saccharomyces cerevisiae.  
 XX OS  
 XX WO200077214-A2.  
 XX 21-DEC-2000.  
 XX 14-JUN-2000; 2000WO-US016223.  
 XX 16-JUN-1999; 99US-00335032.  
 XX



PD 21-DEC-2000.  
XX 14-JUN-2000; 2000WO-US016223.  
XX 16-JUN-1999; 99US-00335032.  
XX (UYJO ) UNIV JOHNS HOPKINS.  
XX Velulescu V, Vogelstein B, Kinzler K;  
PI WPI; 2001-061874/07.  
DR Yeast gene coding sequences comprising NORF genes with serial analysis of  
PT gene expression (SAGE) tags, useful for studying, monitoring and  
PT affecting phases of the cell cycle.  
XX Claim 1; Page 391; 419pp; English.  
XX The present invention describes an isolated DNA molecule comprising a  
CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
CC previously assigned open reading frame; or nonannotated ORF) genes  
CC comprising a SAGE (serial analysis of gene expression) tag. Also  
CC described are: (1) a method (M1) of using NORF genes to affect the cell  
CC cycle comprising administering a NORF gene whose expression varies by at  
CC least 10% between any two phases of the cell cycle selected from log  
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
CC cell; and (b) monitoring expression of a NORF gene whose expression  
CC varies as in M1, where a test substance which modifies the expression of  
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
CC identifying human genes which are involved in cell cycle progression  
CC comprising contacting human DNA with a probe which comprises at least 10  
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
CC and (4) a method (M4) for identifying a candidate drug as a member of a  
CC class of drugs having a characteristic effect on gene expression in a  
CC yeast cell comprising contacting a yeast cell with a candidate drug and  
CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
CC expression is affected by the class of drugs. The NORF genes may be used  
CC to study, monitor and affect phases of the cell cycle, the differentially  
CC expressed genes may be used to identify candidate drugs which affect the cell  
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064  
CC represent SAGE tags used in the exemplification of the present invention.  
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
CC method, in the exemplification of the present invention  
XX Sequence 10 BP; 5 A; 0 C; 4 G; 1 T; 0 U; 0 Other;  
SQ Query Match 10.0%; Score 2; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 1.9e+02;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 9 AG 10  
||  
Db 3 AG 4  
RESULT 210  
AAF34632  
ID AAF34632 standard; DNA; 10 BP.  
XX AAF34632;  
AC  
XX 23-MAR-2001 (first entry)  
DT  
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:1371.  
DE  
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
KW serial analysis of gene expression; antifungal; tag; identification;  
KW linker; PCR primer; ds.  
XX Saccharomyces cerevisiae.  
OS

XX WO200077214-A2.  
XX 21-DEC-2000.  
XX 14-JUN-2000; 2000WO-US016223.  
XX 16-JUN-1999; 99US-00335032.  
XX (UYJO ) UNIV JOHNS HOPKINS.  
XX Velulescu V, Vogelstein B, Kinzler K;  
PI WPI; 2001-061874/07.  
DR Yeast gene coding sequences comprising NORF genes with serial analysis of  
PT gene expression (SAGE) tags, useful for studying, monitoring and  
PT affecting phases of the cell cycle.  
XX Example; Page 49; 419pp; English.  
XX The present invention describes an isolated DNA molecule comprising a  
CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
CC previously assigned open reading frame; or nonannotated ORF) genes  
CC comprising a SAGE (serial analysis of gene expression) tag. Also  
CC described are: (1) a method (M1) of using NORF genes to affect the cell  
CC cycle comprising administering a NORF gene whose expression varies by at  
CC least 10% between any two phases of the cell cycle selected from log  
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
CC cell; and (b) monitoring expression of a NORF gene whose expression  
CC varies as in M1, where a test substance which modifies the expression of  
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
CC identifying human genes which are involved in cell cycle progression  
CC comprising contacting human DNA with a probe which comprises at least 10  
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
CC and (4) a method (M4) for identifying a candidate drug as a member of a  
CC class of drugs having a characteristic effect on gene expression in a  
CC yeast cell comprising contacting a yeast cell with a candidate drug and  
CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
CC expression is affected by the class of drugs. The NORF genes may be used  
CC to study, monitor and affect phases of the cell cycle, the differentially  
CC expressed genes may be used to identify candidate drugs which affect the cell  
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064  
CC represent SAGE tags used in the exemplification of the present invention.  
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
CC method, in the exemplification of the present invention  
XX Sequence 10 BP; 5 A; 0 C; 4 G; 1 T; 0 U; 0 Other;  
SQ Query Match 10.0%; Score 2; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 1.9e+02;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 9 AG 10  
||  
Db 3 AG 4  
RESULT 211  
AAF36782/c  
ID AAF36782 standard; DNA; 10 BP.  
XX AAF36782;  
AC  
XX 23-MAR-2001 (first entry)  
DT  
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:3521.  
DE  
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
KW serial analysis of gene expression; antifungal; tag; identification;  
KW linker; PCR primer; ds.  
XX Saccharomyces cerevisiae.  
OS

KW linker; PCR primer; ds.  
XX  
OS Saccharomyces cerevisiae.  
XX  
FN WO200077214-A2.  
XX  
PD 21-DEC-2000.  
XX  
XX  
XX 14-JUN-2000; 2000WO-US016223.  
XX  
XX 16-JUN-1999; 99US-00335032.  
XX  
XX (UYJO ) UNIV JOHNS HOPKINS.  
XX  
XX Velulescu V, Vogelstein B, Kinzler K;  
XX  
XX WPI; 2001-061874/07.  
XX  
XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
PT gene expression (SAGE) tags, useful for studying, monitoring and  
PT affecting phases of the cell cycle.  
XX  
XX Example; Page 125; 419pp; English.  
PS  
XX The present invention describes an isolated DNA molecule comprising a  
CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
CC previously assigned open reading frame; or nonannotated ORF) genes  
CC comprising a SAGE (serial analysis of gene expression) tag. Also  
CC described are: (1) a method (M1) of using NORF genes to affect the cell  
CC cycle comprising administering a NORF gene whose expression varies by at  
CC least 10% between any two phases of the cell cycle selected from log  
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
CC cell; and (b) monitoring expression of a NORF gene whose expression  
CC varies as in M1, where a test substance which modifies the expression of  
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
CC identifying human genes which are involved in cell cycle progression  
CC comprising contacting human DNA with a probe which comprises at least 10  
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
CC and (4) a method (M4) for identifying a candidate drug as a member of a  
CC class of drugs having a characteristic effect on gene expression in a  
CC yeast cell comprising contacting a yeast cell with a candidate drug and  
CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
CC expression is affected by the class of drugs. The NORF genes may be used  
CC to study, monitor and affect phases of the cell cycle, the differentially  
CC expressed genes may be used as markers of phases of the cell cycle. The  
CC methods may be used to identify candidate drugs which affect the cell  
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064  
CC represent SAGE tags used in the exemplification of the present invention.  
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE  
CC method, in the exemplification of the present invention.  
XX  
SQ Sequence 10 BP; 1 A; 2 C; 1 G; 6 T; 0 U; 0 Other;  
Query Match 10.0%; Score 2; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 1.9e+02;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 17 CG 18  
Db 6 CG 5  
RESULT 212  
ADG64354  
ID ADG64354 standard; DNA; 11 BP.  
XX  
XX AC ADG64354;  
XX  
XX DT 11-MAR-2004 (first entry)  
XX  
XX DNA polymerase 3'-5' exonuclease domain related PCR primer SEQ ID NO:39.  
DE  
XX

KW thermostable DNA polymerase; thermoactive DNA polymerase;  
KW 3'-5' exonuclease domain; mutagenesis; genetic engineering;  
KW genetic fingerprinting; forensic; cloning; infectious agent;  
KW genetic disease; DNA polymerase; PCR primer; ss.  
XX  
OS Synthetic.  
XX  
XX EPI350841-A2.  
XX  
XX 08-OCT-2003.  
XX  
XX 31-MAR-2003; 2003EP-00006888.  
XX  
XX 02-APR-2002; 2002US-0369815P.  
XX  
XX (HOFF ) ROCHE DIAGNOSTICS GMBH.  
XX  
XX (HOFF ) HOFFMANN LA ROCHE & CO AG F.  
XX  
XX Schoenbrunner NJ, Myers TW, Gelfland DH;  
XX  
XX WPI; 2003-815070/77.  
XX  
XX New thermostable or thermoactive DNA polymerases with attenuated 3'-5'  
PT exonuclease activity, useful in polymerase chain reaction for in vitro  
PT mutagenesis and engineering of DNA, or genetic fingerprinting of forensic  
PT samples.  
XX  
XX Example 1; SEQ ID NO 39; 80pp; English.  
XX  
XX The present invention describes an isolated thermostable or thermoactive  
CC DNA polymerase. The DNA polymerase comprises: (a) a 3'-5' exonuclease  
CC domain which exhibits an attenuated 3'-5' exonuclease activity of about  
CC 6.5 or less, but greater than 0, u/pmol, measured using the Standard  
CC Assay; or (b) a 3'-5' exonuclease domain, and having a 5'-3' polymerase  
CC activity and an attenuated 3'-5' exonuclease activity, where the ratio of  
CC the 5'-3' polymerase activity in u/pmol to the 3'-5' exonuclease activity  
CC in u/pmol is about 100-1. The thermostable or thermoactive DNA  
CC polymerases are useful in recombinant DNA techniques or polymerase chain  
CC reaction for in vitro mutagenesis and engineering of DNA, genetic  
CC fingerprinting of forensic samples, direct cloning from genomic DNA or  
CC cDNA, assays for the presence of infectious agents, or parental diagnosis  
CC of genetic disease. The DNA polymerase provides a significant improvement  
CC over thermostable or thermoactive DNA polymerases of prior art. The  
CC present DNA polymerases reduce degradation of primers as compared to wild  
CC type thermostable or thermoactive DNA polymerases. The DNA polymerases  
CC can be easily and efficiently expressed to a high level in a recombinant  
CC expression system, which facilitates commercial production of the enzyme,  
CC and they readily incorporate nucleoside triphosphate analogues, in  
CC contrast to thermostable archae proofreading DNA polymerase. The present  
CC sequence is used in the exemplification of the present invention.  
XX  
SQ Sequence 11 BP; 5 A; 2 C; 4 G; 0 T; 0 U; 0 Other;  
Query Match 10.0%; Score 2; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 1.8e+02;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 17 CG 18  
Db 1 CG 2  
Search completed: April 23, 2006, 11:43:24  
Job time : 1 secs

GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 23, 2006, 11:44:44 ; Search time 0.001 Seconds  
(without alignments)  
9.040 Million cell updates/sec

Title: US-10-728-399-1

Perfect score: 20

Sequence: 1 ttgtctccagctcttcggt 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 0.5

Searched: 24 seqs, 226 residues

Total number of hits satisfying chosen parameters: 48

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : rni.subdb:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	13.8	69.0	17	1	US-09-866-108A-9344
C 2	13.8	69.0	17	1	US-09-866-108A-9345
C 3	13.8	69.0	17	1	US-09-866-108A-9346
C 4	8.4	42.0	10	1	US-08-701-270-9
C 5	8.4	42.0	10	1	US-09-579-536C-43
C 6	8.4	40.0	8	1	US-08-859-954-75
C 7	8.4	40.0	8	1	US-08-859-954-264
C 8	8.4	40.0	8	1	US-08-859-954-501
C 9	8.4	40.0	10	1	US-10-042-111-9
C 10	7.4	37.0	9	1	US-08-605-163-16
C 11	7.4	37.0	8	1	US-08-859-954-44
C 12	7.4	37.0	8	1	US-08-859-954-74
C 13	7.4	37.0	8	1	US-08-859-954-177
C 14	7.4	37.0	8	1	US-08-859-954-198
C 15	7.4	37.0	8	1	US-08-859-954-199
C 16	7.4	37.0	8	1	US-08-859-954-263
C 17	7.4	37.0	8	1	US-08-859-954-357
C 18	7.4	37.0	8	1	US-08-859-954-370
C 19	7.4	37.0	8	1	US-08-859-954-401
C 20	7.4	37.0	8	1	US-08-859-954-491
C 21	7.4	37.0	8	1	US-08-859-954-500
C 22	7.4	37.0	8	1	US-08-859-954-566
C 23	7.4	37.0	8	1	US-09-910-469-43
C 24	7.4	37.0	8	1	US-09-910-469-44
C 25	4.8	24.0	9	1	US-08-605-163-16
C 26	4.4	22.0	8	1	US-08-859-954-177
C 27	4.2	21.0	10	1	US-10-042-111-9
C 28	3.8	19.0	8	1	US-08-859-954-198
C 29	3.8	19.0	8	1	US-08-859-954-500
C 30	3.4	17.0	8	1	US-08-859-954-199
C 31	3.4	17.0	8	1	US-08-859-954-357
C 32	3.4	17.0	8	1	US-08-859-954-370
C 33	3.4	17.0	8	1	US-08-859-954-491

C 34	3.4	17.0	8	1	US-09-910-469-43	Sequence 43, Appl
C 35	3.4	17.0	8	1	US-09-910-469-44	Sequence 44, Appl
C 36	3.4	17.0	17	1	US-09-866-108A-9344	Sequence 9344, Ap
C 37	3.4	17.0	17	1	US-09-866-108A-9345	Sequence 9345, Ap
C 38	3.4	17.0	17	1	US-09-866-108A-9346	Sequence 9346, Ap
C 39	3	15.0	8	1	US-08-859-954-566	Sequence 566, App
C 40	3	15.0	10	1	US-08-701-270-9	Sequence 9, Appli
C 41	2.8	14.0	8	1	US-08-859-954-501	Sequence 501, App
C 42	2.4	12.0	8	1	US-08-859-954-75	Sequence 75, Appl
C 43	2.4	12.0	8	1	US-08-859-954-264	Sequence 264, App
C 44	2.4	12.0	8	1	US-08-859-954-44	Sequence 44, Appl
C 45	2.4	12.0	8	1	US-08-859-954-74	Sequence 74, Appl
C 46	2.4	12.0	8	1	US-08-859-954-401	Sequence 401, App
C 47	2	10.0	8	1	US-08-859-954-263	Sequence 263, App
C 48	2	10.0	10	1	US-09-579-536C-43	Sequence 43, Appl

ALIGNMENTS

RESULT 1  
US-09-866-108A-9344/c  
; Sequence 9344, Application US/09866108A  
; Patent No. 6686188  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AROMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866.108A  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Aromica Sequence Listing Engine  
; Patent No. 6686188  
; SEQ ID NO 9344  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108A-9344

Query Match 69.0%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 0.6;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TCTCCAGCTCTTCGTT 20

Db 17 TCCCAGCCTTCGTT 1



```
RESULT 2
US-09-866-108A-9345/c
; Sequence 9345, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeoica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9345
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-9345

Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 0.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTCTCTTCGT 19
Db 17 GTCCCCAGCTCTTCGT 1

RESULT 3
US-09-866-108A-9346/c
; Sequence 9346, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25

Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 0.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTCTCTTCGT 19
Db 17 GTCCCCAGCTCTTCGT 1

RESULT 4
US-08-701-270-9
; Sequence 9, Application US/08701270
; Patent No. 5702926
; GENERAL INFORMATION:
; APPLICANT: Fraiser, Melinda S.
; APPLICANT: Walker, George T.
; TITLE OF INVENTION: STRAND DISPLACEMENT AMPLIFICATION USING BORONATED NUCLEOTIDES
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Richard J. Rodrick, Becton Dickinson and Company
; STREET: 1 Becton Drive
; CITY: Franklin Lakes
; STATE: NJ
; COUNTRY: US
; ZIP: 07417
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/701,270
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fugit, Donna R.
; REGISTRATION NUMBER: 32,135
; REFERENCE/DOCKET NUMBER: P-3556
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
```



```
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
US-08-701-270-9

Query Match      42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 4.3;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTC 12
Db 1 GTCTCCATC 10

RESULT 5
US-09-579-536C-43/c
; Sequence 43, Application US/09579536C
; Patent No. 6716974
; GENERAL INFORMATION:
; APPLICANT: MACIAG, Thomas
; APPLICANT: ZIMRIN, Ann
; APPLICANT: SMALL, Deena
; APPLICANT: PRUDOVSKY, Igor
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC METHODS AND COMPOSITIONS BASED ON JAGG
; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE: 053689-5002-01
; CURRENT APPLICATION NUMBER: US/09/579,536C
; CURRENT FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: US 09/199,865
; PRIOR FILING DATE: 1998-11-25
; PRIOR APPLICATION NUMBER: PCR/US97/09407
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/018,841
; PRIOR FILING DATE: 1996-05-31
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-579-536C-43

Query Match      42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 4.3;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 11 TCTCTTCGTT 20
Db 10 TCTCTTCCTT 1

RESULT 6
US-08-859-954-75/c
; Sequence 75, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
```

```
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHEetical: YES
; ANTI-SENSE: YES
; US-08-859-954-75

Query Match      40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCC 8
Db 8 TTGTCTCC 1

RESULT 7
US-08-859-954-264/c
; Sequence 264, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
```

; INFORMATION FOR SEQ ID NO: 264:

; SEQUENCE CHARACTERISTICS:  
; LENGTH: 8 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "oligonucleotide"  
; HYPOTHETICAL: YES  
; ANTI-SENSE: YES  
US-08-859-954-264

Query Match 40.0%; Score 8; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 20;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GTCTCTTC 17  
Db 8 GTCTCTTC 1

## RESULT 8

US-08-859-954-501/c  
; Sequence 501, Application US/08859954  
; Patent No. 6083695

; GENERAL INFORMATION:  
; APPLICANT: Hardin, Susan H.

; APPLICANT: Homayouni, Ramin

; APPLICANT: Hardin, Paul E.

; TITLE OF INVENTION: Design and Optimized Primer Library for

; TITLE OF INVENTION: Gene Sequencing and Method Thereof

; NUMBER OF SEQUENCES: 566

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fulbright & Jaworski L.L.P.

; STREET: 1301 McKinney, Suite 5100

; CITY: Houston

; STATE: Texas

; COUNTRY: U.S.A.

; ZIP: 77010-3095

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/859,954

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/632,782

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Paul, Thomas D.

; REGISTRATION NUMBER: 32,714

; REFERENCE/DOCKET NUMBER: D-5900

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 713/651-5325

; TELEFAX: 713/651-5246

; INFORMATION FOR SEQ ID NO: 501:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 8 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: other nucleic acid

; DESCRIPTION: /desc = "oligonucleotide"

; HYPOTHETICAL: YES

; ANTI-SENSE: YES

US-08-859-954-501

Query Match 40.0%; Score 8; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 20;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11  
Db 8 TCTCCAGT 1

## RESULT 9

US-10-042-111-9/c

; Sequence 9, Application US/10042111

; Patent No. 6551476

; GENERAL INFORMATION:

; APPLICANT: ZHEJIANG ACADEMY OF AGRICULTURAL SCIENCES

; APPLICANT: CHEN, Jinqing

; TITLE OF INVENTION: A METHOD FOR CONTROLLING RATIO OF PROTEINS/LIPIDS IN CROP SEEDS

; FILE REFERENCE: ref.

; CURRENT APPLICATION NUMBER: US/10/042,111

; CURRENT FILING DATE: 2002-05-08

; PRIOR APPLICATION NUMBER: CN 99124511.3

; PRIOR FILING DATE: 1999-11-09

; NUMBER OF SEQ ID NOS: 46

; SOFTWARE: Patentin version 3.1

; SEQ ID NO 9

; LENGTH: 10

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; NAME/KEY: misc feature

; OTHER INFORMATION: primer

US-10-042-111-9

Query Match 40.0%; Score 8; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 4.7;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CTCGAGTC 12  
Db 9 CTCGAGTC 2

## RESULT 10

US-08-605-163-16

; Sequence 16, Application US/08605163

; Patent No. 5879886

; GENERAL INFORMATION:

; APPLICANT: Meo, Tommaso

; APPLICANT: Tosi, Mario

; APPLICANT: Verpy, Elisabeth

; APPLICANT: Biasotto, Michel

; TITLE OF INVENTION: Method for Detecting Molecules

; TITLE OF INVENTION: Containing Nucleotide Mismatches and the Location of These

; TITLE OF INVENTION: Mismatches, and Application to the Detection of Base

; TITLE OF INVENTION: Substitutions or Deletions in Nucleotide Sequences.

; NUMBER OF SEQUENCES: 22

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &

; ADDRESSEE: Dunner

; STREET: 1300 I Street, N.W.

; CITY: Washington

; STATE: D.C.

; COUNTRY: USA

; ZIP: 20005-3315

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/605,163

; FILING DATE: 08-MAR-1996

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Meyers, Kenneth J.

; REGISTRATION NUMBER: 25,146

REFERENCE/DOCKET NUMBER: 05986.0005-00000  
TELEPHONE: (202) 408-4000  
TELEFAX: (202) 408-4400  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-605-163-16

Query Match 37.0%; Score 7.4; DB 1; Length 9;  
Best Local Similarity 88.9%; Pred. No. 18;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TGTCTCCAG 10  
|||  
Db 1 TGACTCCAG 9

RESULT 11  
US-08-859-954-44  
; Sequence 44, Application US/08859954  
; Patent No. 6083695  
; GENERAL INFORMATION:  
; APPLICANT: Hardin, Susan H.  
; APPLICANT: Homayouni, Ramin  
; APPLICANT: Hardin, Paul E.  
; TITLE OF INVENTION: Design and Optimized Primer Library for  
; NUMBER OF SEQUENCES: 566  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fulbright & Jaworski L.L.P.  
; STREET: 1301 McKinney, Suite 5100  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: U.S.A.  
; ZIP: 77010-3095  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/859,954  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/632,782  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Paul, Thomas D.  
; REGISTRATION NUMBER: 32,714  
; REFERENCE/DOCKET NUMBER: D-5900  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 713/651-5325  
; TELEFAX: 713/651-5246  
; INFORMATION FOR SEQ ID NO: 44:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 8 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "oligonucleotide"  
; HYPOTHETICAL: YES  
; ANTI-SENSE: YES  
US-08-859-954-44

Query Match 35.0%; Score 7; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 20;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 10 GTCTCTT 16  
|||||  
Db 2 GTCTCTT 8

RESULT 12  
US-08-859-954-74/c  
; Sequence 74, Application US/08859954  
; Patent No. 6083695  
; GENERAL INFORMATION:  
; APPLICANT: Hardin, Susan H.  
; APPLICANT: Homayouni, Ramin  
; APPLICANT: Hardin, Paul E.  
; TITLE OF INVENTION: Design and Optimized Primer Library for  
; NUMBER OF SEQUENCES: 566  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fulbright & Jaworski L.L.P.  
; STREET: 1301 McKinney, Suite 5100  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: U.S.A.  
; ZIP: 77010-3095  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/859,954  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/632,782  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Paul, Thomas D.  
; REGISTRATION NUMBER: 32,714  
; REFERENCE/DOCKET NUMBER: D-5900  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 713/651-5325  
; TELEFAX: 713/651-5246  
; INFORMATION FOR SEQ ID NO: 74:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 8 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "oligonucleotide"  
; HYPOTHETICAL: YES  
; ANTI-SENSE: YES  
US-08-859-954-74

Query Match 35.0%; Score 7; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 20;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TGTCTCC 8  
|||||  
Db 7 TGTCTCC 1

RESULT 13  
US-08-859-954-177  
; Sequence 177, Application US/08859954  
; Patent No. 6083695  
; GENERAL INFORMATION:  
; APPLICANT: Hardin, Susan H.  
; APPLICANT: Homayouni, Ramin  
; APPLICANT: Hardin, Paul E.

; TITLE OF INVENTION: Design and Optimized Primer Library for  
 ; NUMBER OF SEQUENCES: 566  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Fulbright & Jaworski L.L.P.  
 ; STREET: 1301 McKinney, Suite 5100  
 ; CITY: Houston  
 ; STATE: Texas  
 ; COUNTRY: U.S.A.  
 ; ZIP: 77010-3095

; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/859,954  
 ; FILING DATE:  
 ; CLASSIFICATION:

; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/632,782  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:

; NAME: Paul, Thomas D.  
 ; REGISTRATION NUMBER: 32,714  
 ; REFERENCE/DOCKET NUMBER: D-5900

; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 713/651-5325  
 ; TELEFAX: 713/651-5246

; INFORMATION FOR SEQ ID NO: 177:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 8 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear

; MOLECULE TYPE: other nucleic acid  
 ; DESCRIPTION: /desc = "oligonucleotide"  
 ; HYPOTHETICAL: YES  
 ; ANTI-SENSE: YES

; US-08-859-954-177

; Query Match 35.0%; Score 7; DB 1; Length 8;  
 ; Best Local Similarity 100.0%; Pred. No. 20;  
 ; Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

; Qy 9 AGTCTCT 15  
 ; Db 2 AGTCTCT 8

; RESULT 14  
 ; US-08-859-954-198/c  
 ; Sequence 198, Application US/08859954  
 ; Patent No. 6083695

; GENERAL INFORMATION:  
 ; APPLICANT: Hardin, Susan H.  
 ; APPLICANT: Homayouni, Ramin  
 ; APPLICANT: Hardin, Paul E.

; TITLE OF INVENTION: Design and Optimized Primer Library for  
 ; TITLE OF INVENTION: Gene Sequencing and Method Thereof  
 ; NUMBER OF SEQUENCES: 566

; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Fulbright & Jaworski L.L.P.  
 ; STREET: 1301 McKinney, Suite 5100  
 ; CITY: Houston  
 ; STATE: Texas  
 ; COUNTRY: U.S.A.  
 ; ZIP: 77010-3095

; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/859,954  
 ; FILING DATE:  
 ; CLASSIFICATION:

; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/632,782  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:

; NAME: Paul, Thomas D.  
 ; REGISTRATION NUMBER: 32,714  
 ; REFERENCE/DOCKET NUMBER: D-5900

; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 713/651-5325  
 ; TELEFAX: 713/651-5246

; INFORMATION FOR SEQ ID NO: 177:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 8 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear

; MOLECULE TYPE: other nucleic acid  
 ; DESCRIPTION: /desc = "oligonucleotide"  
 ; HYPOTHETICAL: YES  
 ; ANTI-SENSE: YES

; US-08-859-954-177

; Query Match 35.0%; Score 7; DB 1; Length 8;  
 ; Best Local Similarity 100.0%; Pred. No. 20;  
 ; Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

; Qy 9 AGTCTCT 15  
 ; Db 2 AGTCTCT 8

; RESULT 14  
 ; US-08-859-954-198/c  
 ; Sequence 198, Application US/08859954  
 ; Patent No. 6083695

; GENERAL INFORMATION:  
 ; APPLICANT: Hardin, Susan H.  
 ; APPLICANT: Homayouni, Ramin  
 ; APPLICANT: Hardin, Paul E.

; TITLE OF INVENTION: Design and Optimized Primer Library for  
 ; TITLE OF INVENTION: Gene Sequencing and Method Thereof  
 ; NUMBER OF SEQUENCES: 566

; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Fulbright & Jaworski L.L.P.  
 ; STREET: 1301 McKinney, Suite 5100  
 ; CITY: Houston  
 ; STATE: Texas  
 ; COUNTRY: U.S.A.  
 ; ZIP: 77010-3095

; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/859,954  
 ; FILING DATE:  
 ; CLASSIFICATION:

; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/632,782  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:

; NAME: Paul, Thomas D.  
 ; REGISTRATION NUMBER: 32,714  
 ; REFERENCE/DOCKET NUMBER: D-5900

; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 713/651-5325  
 ; TELEFAX: 713/651-5246

; INFORMATION FOR SEQ ID NO: 199:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 8 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear

; MOLECULE TYPE: other nucleic acid  
 ; DESCRIPTION: /desc = "oligonucleotide"  
 ; HYPOTHETICAL: YES  
 ; ANTI-SENSE: YES

; US-08-859-954-198

; Query Match 35.0%; Score 7; DB 1; Length 8;  
 ; Best Local Similarity 100.0%; Pred. No. 20;  
 ; Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

; Qy 8 CAGTCTC 14  
 ; Db 7 CAGTCTC 1

; RESULT 15  
 ; US-08-859-954-199/c  
 ; Sequence 199, Application US/08859954  
 ; Patent No. 6083695

; GENERAL INFORMATION:  
 ; APPLICANT: Hardin, Susan H.  
 ; APPLICANT: Homayouni, Ramin  
 ; APPLICANT: Hardin, Paul E.

; TITLE OF INVENTION: Design and Optimized Primer Library for  
 ; TITLE OF INVENTION: Gene Sequencing and Method Thereof  
 ; NUMBER OF SEQUENCES: 566

; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Fulbright & Jaworski L.L.P.  
 ; STREET: 1301 McKinney, Suite 5100  
 ; CITY: Houston  
 ; STATE: Texas  
 ; COUNTRY: U.S.A.  
 ; ZIP: 77010-3095

; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/859,954  
 ; FILING DATE:  
 ; CLASSIFICATION:

; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 08/632,782  
 ; FILING DATE:  
 ; ATTORNEY/AGENT INFORMATION:

; NAME: Paul, Thomas D.  
 ; REGISTRATION NUMBER: 32,714  
 ; REFERENCE/DOCKET NUMBER: D-5900

; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 713/651-5325  
 ; TELEFAX: 713/651-5246

; INFORMATION FOR SEQ ID NO: 199:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 8 base pairs  
 ; TYPE: nucleic acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear

; MOLECULE TYPE: other nucleic acid  
 ; DESCRIPTION: /desc = "oligonucleotide"  
 ; HYPOTHETICAL: YES  
 ; ANTI-SENSE: YES

; US-08-859-954-198

; Query Match 35.0%; Score 7; DB 1; Length 8;  
 ; Best Local Similarity 100.0%; Pred. No. 20;  
 ; Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

; Qy 8 CAGTCTC 14  
 ; Db 7 CAGTCTC 1

SEQUENCE CHARACTERISTICS:  
LENGTH: 8 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: /desc = "Oligonucleotide"  
HYPOTHETICAL: YES  
ANTI-SENSE: YES  
US-08-859-954-199

Query Match 35.0%; Score 7; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 20;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 CAGTCTC 14  
Db 7 CAGTCTC 1

## RESULT 16

US-08-859-954-263/c  
Sequence 263, Application US/08859954  
Patent No. 6083695

GENERAL INFORMATION:  
APPLICANT: Hardin, Susan H.  
APPLICANT: Homayouni, Ramin  
APPLICANT: Hardin, Paul E.  
TITLE OF INVENTION: Design and Optimized Primer Library for  
TITLE OF INVENTION: Gene Sequencing and Method Thereof  
NUMBER OF SEQUENCES: 566

CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fulbright & Jaworski L.L.P.  
STREET: 1301 McKinney, Suite 5100  
CITY: Houston  
STATE: Texas  
COUNTRY: U.S.A.  
ZIP: 77010-3095

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/859,954  
FILING DATE:

CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/632,782  
FILING DATE:

ATTORNEY/AGENT INFORMATION:  
NAME: Paul, Thomas D.  
REGISTRATION NUMBER: 32,714  
REFERENCE/DOCKET NUMBER: D-5900  
TELEPHONE: 713/651-5325  
TELEFAX: 713/651-5246  
INFORMATION FOR SEQ ID NO: 263:

SEQUENCE CHARACTERISTICS:  
LENGTH: 8 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: /desc = "Oligonucleotide"  
HYPOTHETICAL: YES  
ANTI-SENSE: YES  
US-08-859-954-263

Query Match 35.0%; Score 7; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 20;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 TCTCTTC 17  
Db 7 TCTCTTC 1

## RESULT 17

US-08-859-954-357/c  
Sequence 357, Application US/08859954  
Patent No. 6083695

GENERAL INFORMATION:  
APPLICANT: Hardin, Susan H.  
APPLICANT: Homayouni, Ramin  
APPLICANT: Hardin, Paul E.  
TITLE OF INVENTION: Design and Optimized Primer Library for  
TITLE OF INVENTION: Gene Sequencing and Method Thereof  
NUMBER OF SEQUENCES: 566  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fulbright & Jaworski L.L.P.  
STREET: 1301 McKinney, Suite 5100  
CITY: Houston  
STATE: Texas  
COUNTRY: U.S.A.  
ZIP: 77010-3095

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/859,954  
FILING DATE:

CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/632,782  
FILING DATE:

ATTORNEY/AGENT INFORMATION:  
NAME: Paul, Thomas D.  
REGISTRATION NUMBER: 32,714  
REFERENCE/DOCKET NUMBER: D-5900  
TELEPHONE: 713/651-5325  
TELEFAX: 713/651-5246  
INFORMATION FOR SEQ ID NO: 357:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 8 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: /desc = "Oligonucleotide"  
HYPOTHETICAL: YES  
ANTI-SENSE: YES  
US-08-859-954-357

Query Match 35.0%; Score 7; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 20;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GTCTCCA 9  
Db 7 GTCTCCA 1

## RESULT 18

US-08-859-954-370  
Sequence 370, Application US/08859954  
Patent No. 6083695

GENERAL INFORMATION:  
APPLICANT: Hardin, Susan H.  
APPLICANT: Homayouni, Ramin  
APPLICANT: Hardin, Paul E.  
TITLE OF INVENTION: Design and Optimized Primer Library for  
TITLE OF INVENTION: Gene Sequencing and Method Thereof

```

; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 370:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
; US-08-859-954-370

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCAGTCT 13
Db 1 CCAGTCT 7

RESULT 19
US-08-859-954-401/c
; Sequence 401, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; CURRENT APPLICATION DATA:
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954

```

```

; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 401:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
; US-08-859-954-401

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GTCTCCA 9
Db 8 GTCTCCA 2

RESULT 20
US-08-859-954-491/c
; Sequence 491, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; CURRENT APPLICATION DATA:
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 491:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs

```

```
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-491

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 CCAGTCT 13
DB 7 CCAGTCT 1

RESULT 21
US-08-859-954-500/c
; Sequence 500, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 500:
; SEQUENCE CHARACTERISTICS:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 500:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-500

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CTCAGT 11
DB 5 CTCAGT 11

; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-566/c
; Sequence 566, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 566:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-566

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GTCTCCA 9
DB 8 GTCTCCA 2

RESULT 23
US-08-910-469-43
; Sequence 43, Application US/09910469
; Patent No. 6893822
; GENERAL INFORMATION:
; APPLICANT: Schweitzer, Markus
; APPLICANT: Anderson, Richard R.
; APPLICANT: Mueller, Jochen
; APPLICANT: Fiechter, Michael
; APPLICANT: Bruecher, Christoph
; APPLICANT: Kienle, Stefan
; APPLICANT: Orwick, Jill
```

APPLICANT: Pignot, Marc  
APPLICANT: Raddatz, Stefan  
APPLICANT: Schneider, Eberhard  
APPLICANT: Windhab, No. 6893822bert  
TITLE OF INVENTION: Sorting and Immobilization System for Nucleic Acids Using Synthetic  
FILE REFERENCE: 264/217 Nanogen Recognomics  
CURRENT APPLICATION NUMBER: US/09/910,469  
CURRENT FILING DATE: 2001-07-19  
NUMBER OF SEQ ID NOS: 184  
SOFTWARE: Patent in version 3.1  
SEQ ID NO 43  
LENGTH: 8  
TYPE: DNA  
ORGANISM: Artificial sequence  
FEATURE:  
OTHER INFORMATION: Synthetic binding system  
NAME/KEY: modified base  
LOCATION: (1)..(8)  
OTHER INFORMATION: pyranosyl RNA  
US-09-910-469-43

Query Match 35.0%; Score 7; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 20;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCAGTCT 13  
|||||  
Db 1 CCAGTCT 7

RESULT 24  
US-09-910-469-44/c  
Sequence 44, Application US/09910469  
Patent No. 6893822  
GENERAL INFORMATION:  
APPLICANT: Schweitzer, Markus  
APPLICANT: Anderson, Richard R.  
APPLICANT: Mueller, Jochen  
APPLICANT: Fiechtner, Michael  
APPLICANT: Bruecher, Christoph  
APPLICANT: Kienle, Stefan  
APPLICANT: Orwick, Jill  
APPLICANT: Pignot, Marc  
APPLICANT: Raddatz, Stefan  
APPLICANT: Schneider, Eberhard  
APPLICANT: Windhab, No. 6893822bert  
TITLE OF INVENTION: Sorting and Immobilization System for Nucleic Acids Using Synthetic  
FILE REFERENCE: 264/217 Nanogen Recognomics  
CURRENT APPLICATION NUMBER: US/09/910,469  
CURRENT FILING DATE: 2001-07-19  
NUMBER OF SEQ ID NOS: 184  
SOFTWARE: Patent in version 3.1  
SEQ ID NO 44  
LENGTH: 8  
TYPE: DNA  
ORGANISM: Artificial sequence  
FEATURE:  
OTHER INFORMATION: Synthetic binding system  
NAME/KEY: modified base  
LOCATION: (1)..(8)  
OTHER INFORMATION: pyranosyl RNA  
US-09-910-469-44

Query Match 35.0%; Score 7; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred. No. 20;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCAGTCT 13  
|||||  
Db 8 CCAGTCT 2

RESULT 25  
US-08-605-163-16/c  
Sequence 16, Application US/08605163  
Patent No. 5879886  
GENERAL INFORMATION:  
APPLICANT: Meo, Tommaso  
APPLICANT: Tosi, Mario  
APPLICANT: Verdy, Elisabeth  
APPLICANT: Biasotto, Michel  
TITLE OF INVENTION: Method for Detecting Molecules  
TITLE OF INVENTION: Containing Nucleotide Mismatches and the Location of These  
TITLE OF INVENTION: Mismatches, and Application to the Detection of Base  
TITLE OF INVENTION: Substitutions or Deletions in Nucleotide Sequences.  
NUMBER OF SEQUENCES: 22  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &  
ADDRESSEE: Dunner  
STREET: 1300 I Street, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005-3315  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/605,163  
FILING DATE: 08-MAR-1996  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Meyers, Kenneth J.  
REGISTRATION NUMBER: 25,146  
REFERENCE/DOCKET NUMBER: 05986.0005-00000  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 408-4000  
TELEFAX: (202) 408-4400  
INFORMATION FOR SEQ ID NO: 16:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-605-163-16

Query Match 24.0%; Score 4.8; DB 1; Length 9;  
Best Local Similarity 75.0%; Pred. No. 18;  
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAGTC 12  
|||||  
Db 9 CTCGAGTC 2

RESULT 26  
US-08-859-954-177/c  
Sequence 177, Application US/08859954  
Patent No. 6083695  
GENERAL INFORMATION:  
APPLICANT: Hardin, Susan H.  
APPLICANT: Homayouni, Ramin  
APPLICANT: Hardin, Paul E.  
TITLE OF INVENTION: Design and Optimized Primer Library for  
TITLE OF INVENTION: Gene Sequencing and Method Thereof  
NUMBER OF SEQUENCES: 566  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fulbright & Jaworski L.L.P.  
STREET: 1301 McKinney, Suite 5100  
CITY: Houston  
STATE: Texas



;; COUNTRY: U.S.A.  
;; ZIP: 77010-3095  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.30  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/859,954  
;; FILING DATE:  
;; CLASSIFICATION:  
;; PRIOR APPLICATION DATA:  
;; APPLICATION NUMBER: 08/632,782  
;; FILING DATE:  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Paul, Thomas D.  
;; REGISTRATION NUMBER: 32,714  
;; REFERENCE/DOCKET NUMBER: D-5900  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 713/651-5325  
;; TELEFAX: 713/651-5246  
;; INFORMATION FOR SEQ ID NO: 177:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 8 base pairs  
;; TYPE: nucleic acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: other nucleic acid  
;; DESCRIPTION: /desc = "oligonucleotide"  
;; HYPOTHETICAL: YES  
;; ANTI-SENSE: YES  
US-08-859-954-177

Query Match 22.0%; Score 4.4; DB 1; Length 8;  
Best Local Similarity 83.3%; Pred. No. 20;  
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCTC 14  
|||  
Db 6 AGACTC 1

RESULT 27  
US-10-042-111-9  
; Sequence 9, Application US/10042111  
; Patent No. 6551476  
; GENERAL INFORMATION:  
; APPLICANT: ZHEJIANG ACADEMY OF AGRICULTURAL SCIENCES  
; TITLE OF INVENTION: A METHOD FOR CONTROLLING RATIO OF PROTEINS/LIPIDS IN CROP SEEDS  
; FILE REFERENCE: ref.  
; CURRENT APPLICATION NUMBER: US/10/042,111  
; CURRENT FILING DATE: 2002-05-08  
; PRIOR APPLICATION NUMBER: CN 99124511.3  
; PRIOR FILING DATE: 1999-11-09  
; NUMBER OF SEQ ID NOS: 46  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 9  
; LENGTH: 10  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: primer  
US-10-042-111-9

Query Match 21.0%; Score 4.2; DB 1; Length 10;  
Best Local Similarity 66.7%; Pred. No. 10;  
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 3 GTCTCCACT 11  
|||  
Db 2 GACTGGACT 10

RESULT 28  
US-08-859-954-198  
; Sequence 198, Application US/08859954  
; Patent No. 6083695  
; GENERAL INFORMATION:  
; APPLICANT: Hardin, Susan H.  
; APPLICANT: Homayouni, Ramin  
; APPLICANT: Hardin, Paul E.  
; TITLE OF INVENTION: Design and Optimized Primer Library for  
; TITLE OF INVENTION: Gene Sequencing and Method Thereof  
; NUMBER OF SEQUENCES: 566  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fulbright & Jaworski L.L.P.  
; STREET: 1301 McKinney, Suite 5100  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: U.S.A.  
; ZIP: 77010-3095  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/859,954  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/632,782  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Paul, Thomas D.  
; REGISTRATION NUMBER: 32,714  
; REFERENCE/DOCKET NUMBER: D-5900  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 713/651-5325  
; TELEFAX: 713/651-5246  
; INFORMATION FOR SEQ ID NO: 198:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 8 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "oligonucleotide"  
; HYPOTHETICAL: YES  
; ANTI-SENSE: YES  
US-08-859-954-198

Query Match 19.0%; Score 3.8; DB 1; Length 8;  
Best Local Similarity 71.4%; Pred. No. 20;  
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 9 AGTCTCT 15  
|||  
Db 2 AGACTGT 8

RESULT 29  
US-08-859-954-500  
; Sequence 500, Application US/08859954  
; Patent No. 6083695  
; GENERAL INFORMATION:  
; APPLICANT: Hardin, Susan H.  
; APPLICANT: Homayouni, Ramin  
; APPLICANT: Hardin, Paul E.  
; TITLE OF INVENTION: Design and Optimized Primer Library for  
; TITLE OF INVENTION: Gene Sequencing and Method Thereof  
; NUMBER OF SEQUENCES: 566  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fulbright & Jaworski L.L.P.

```

; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 500:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
; US-08-859-954-500

Query Match 19.0%; Score 3.8; DB 1; Length 8;
Best Local Similarity 71.4%; Pred. No. 20;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAGT 11
Db 2 CTGGAGT 8

RESULT 30
US-08-859-954-199
; Sequence 199, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 357:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,71
```

; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "oligonucleotide"  
; HYPOTHETICAL: YES  
; ANTI-SENSE: YES  
US-08-859-954-357

Query Match 17.0%; Score 3.4; DB 1; Length 8;  
Best Local Similarity 80.0%; Pred. No. 20;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
|||  
Db 4 AGACT 8

## RESULT 32

US-08-859-954-370/c  
; Sequence 370, Application US/08859954  
; Patent No. 6083695  
; GENERAL INFORMATION:  
; APPLICANT: Hardin, Susan H.  
; APPLICANT: Homayouni, Ramin  
; APPLICANT: Hardin, Paul E.  
; TITLE OF INVENTION: Design and Optimized Primer Library for  
; TITLE OF INVENTION: Gene Sequencing and Method Thereof  
; NUMBER OF SEQUENCES: 566  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fulbright & Jaworski L.L.P.  
; STREET: 1301 McKinney, Suite 5100  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: U.S.A.  
; ZIP: 77010-3095  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/859,954  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/632,782  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Paul, Thomas D.  
; REGISTRATION NUMBER: 32,714  
; REFERENCE/DOCKET NUMBER: D-5900  
; TELEPHONE: 713/651-5325  
; TELEFAX: 713/651-5246  
; INFORMATION FOR SEQ ID NO: 370:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 8 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "oligonucleotide"  
; HYPOTHETICAL: YES  
; ANTI-SENSE: YES  
US-08-859-954-370

Query Match 17.0%; Score 3.4; DB 1; Length 8;  
Best Local Similarity 80.0%; Pred. No. 20;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
|||  
Db 7 AGACT 3

## RESULT 33

US-08-859-954-491  
; Sequence 491, Application US/08859954  
; Patent No. 6083695  
; GENERAL INFORMATION:  
; APPLICANT: Hardin, Susan H.  
; APPLICANT: Homayouni, Ramin  
; APPLICANT: Hardin, Paul E.  
; TITLE OF INVENTION: Design and Optimized Primer Library for  
; TITLE OF INVENTION: Gene Sequencing and Method Thereof  
; NUMBER OF SEQUENCES: 566  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fulbright & Jaworski L.L.P.  
; STREET: 1301 McKinney, Suite 5100  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: U.S.A.  
; ZIP: 77010-3095  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/859,954  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/632,782  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Paul, Thomas D.  
; REGISTRATION NUMBER: 32,714  
; REFERENCE/DOCKET NUMBER: D-5900  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 713/651-5325  
; TELEFAX: 713/651-5246  
; INFORMATION FOR SEQ ID NO: 491:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 8 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "oligonucleotide"  
; HYPOTHETICAL: YES  
; ANTI-SENSE: YES  
US-08-859-954-491

Query Match 17.0%; Score 3.4; DB 1; Length 8;  
Best Local Similarity 80.0%; Pred. No. 20;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
|||  
Db 1 AGACT 5

## RESULT 34

US-09-910-469-43/c  
; Sequence 43, Application US/09910469  
; Patent No. 6893822  
; GENERAL INFORMATION:  
; APPLICANT: Schweitzer, Markus  
; APPLICANT: Anderson, Richard R.  
; APPLICANT: Mueller, Jochen  
; APPLICANT: Flechner, Michael  
; APPLICANT: Bruecher, Christoph  
; APPLICANT: Kienle, Stefan  
; APPLICANT: Orwick, Jill  
; APPLICANT: Pignot, Marc  
; APPLICANT: Raddatz, Stefan  
; APPLICANT: Schneider, Eberhard

```
; APPLICANT: Windhab, No. 6893822bert
; TITLE OF INVENTION: Sorting and Immobilization System for Nucleic Acids Using Synthes
; FILE REFERENCE: 264/217 Nanogen Recognomics
; CURRENT APPLICATION NUMBER: US/09/910,469
; CURRENT FILING DATE: 2001-07-19
; NUMBER OF SEQ ID NOS: 184
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic binding system
; NAME/KEY: modified_base
; LOCATION: (1)..(8)
; OTHER INFORMATION: pyranosyl RNA
US-09-910-469-43

Query Match          17.0%; Score 3.4; DB 1; Length 8;
Best Local Similarity 80.0%; Pred. No. 20;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db 7 AGACT 3

RESULT 35
US-09-910-469-44
; Sequence 44, Application US/09910469
; Patent No. 6893822
; GENERAL INFORMATION:
; APPLICANT: Schweitzer, Markus
; APPLICANT: Anderson, Richard R.
; APPLICANT: Mueller, Jochen
; APPLICANT: Fiechtner, Michael
; APPLICANT: Bruecher, Christoph
; APPLICANT: Kienle, Stefan
; APPLICANT: Orwick, Jill
; APPLICANT: Pignot, Marc
; APPLICANT: Raddatz, Stefan
; APPLICANT: Schneider, Eberhard
; APPLICANT: Windhab, No. 6893822bert
; TITLE OF INVENTION: Sorting and Immobilization System for Nucleic Acids Using Synthes
; FILE REFERENCE: 264/217 Nanogen Recognomics
; CURRENT APPLICATION NUMBER: US/09/910,469
; CURRENT FILING DATE: 2001-07-19
; NUMBER OF SEQ ID NOS: 184
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic binding system
; NAME/KEY: modified_base
; LOCATION: (1)..(8)
; OTHER INFORMATION: pyranosyl RNA
US-09-910-469-44

Query Match          17.0%; Score 3.4; DB 1; Length 8;
Best Local Similarity 80.0%; Pred. No. 20;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db 2 AGACT 6

RESULT 36
US-09-866-108A-9344
; Sequence 9344, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; OTHER INFORMATION: pyranosyl RNA
US-09-866-108A-9344

Query Match          17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 6.9;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db 8 AGGCT 12

RESULT 37
US-09-866-108A-9345
; Sequence 9345, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
```

```
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Acomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9345
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-9345

Query Match      17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 6.9;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      9 AGTCT 13
Db      7 AGGCT 11

RESULT 38
US-09-866-108A-9346
; Sequence 9346, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharon G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755

; SOFTWARE: Acomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9345
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-9345

Query Match      17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 6.9;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      9 AGTCT 13
Db      7 AGGCT 11

RESULT 39
US-08-859-954-566
; Sequence 566, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D. 32,714
; REGISTRATION NUMBER:
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 566:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-566

Query Match      15.0%; Score 3; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TTG 3
Db      1 TTG 3
```

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; SOFTWARE: Acomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9346
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-9346

Query Match      17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 6.9;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      9 AGTCT 13
Db      6 AGGCT 10

RESULT 39
US-08-859-954-566
; Sequence 566, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D. 32,714
; REGISTRATION NUMBER:
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 566:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-566

Query Match      15.0%; Score 3; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TTG 3
Db      1 TTG 3
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RESULT 40  
US-08-701-270-9/c  
; Sequence 9, Application US/08701270  
; Patent No. 5702926  
; GENERAL INFORMATION:  
; APPLICANT: Fraiser, Melinda S.  
; APPLICANT: Walker, George T.  
; TITLE OF INVENTION: STRAND DISPLACEMENT AMPLIFICATION USING  
; BORONATED NUCLEOTIDES  
; NUMBER OF SEQUENCES: 11  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Richard J. Rodrick, Becton Dickinson and  
; ADDRESSEE: Company  
; STREET: 1 Becton Drive  
; CITY: Franklin Lakes  
; STATE: NJ  
; COUNTRY: US  
; ZIP: 07417  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/701.270  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Fugit, Donna R.  
; REGISTRATION NUMBER: 32,135  
; REFERENCE/DOCKET NUMBER: P-3556  
; INFORMATION FOR SEQ ID NO: 9:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 10 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear  
US-08-701-270-9  
Query Match 15.0%; Score 3; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 12;  
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 TTG 3  
Db 8 TTG 6  
RESULT 41  
US-08-859-954-501  
; Sequence 501, Application US/08859954  
; Patent No. 6083695  
; GENERAL INFORMATION:  
; APPLICANT: Hardin, Susan H.  
; APPLICANT: Homayouni, Ramin  
; APPLICANT: Hardin, Paul E.  
; TITLE OF INVENTION: Design and Optimized Primer Library for  
; GENE SEQUENCING AND METHOD THEREOF  
; NUMBER OF SEQUENCES: 566  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fulbright & Jaworski L.L.P.  
; STREET: 1301 McKinney, Suite 5100  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: U.S.A.  
; ZIP: 77010-3095  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/859,954  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/632,782  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Paul, Thomas D.  
; REGISTRATION NUMBER: 32,714  
; REFERENCE/DOCKET NUMBER: D-5900  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 713/651-5325  
; TELEFAX: 713/651-5246  
; INFORMATION FOR SEQ ID NO: 75:

; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/859,954  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/632,782  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Paul, Thomas D.  
; REGISTRATION NUMBER: 32,714  
; REFERENCE/DOCKET NUMBER: D-5900  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 713/651-5325  
; TELEFAX: 713/651-5246  
; INFORMATION FOR SEQ ID NO: 501:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 8 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "oligonucleotide"  
; HYPOTHETICAL: YES  
; ANTI-SENSE: YES  
US-08-859-954-501  
Query Match 14.0%; Score 2.8; DB 1; Length 8;  
Best Local Similarity 66.7%; Pred. No. 20;  
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 5 CTCGAG 10  
Db 2 CTGGAG 7  
RESULT 42  
US-08-859-954-75  
; Sequence 75, Application US/08859954  
; Patent No. 6083695  
; GENERAL INFORMATION:  
; APPLICANT: Hardin, Susan H.  
; APPLICANT: Homayouni, Ramin  
; APPLICANT: Hardin, Paul E.  
; TITLE OF INVENTION: Design and Optimized Primer Library for  
; GENE SEQUENCING AND METHOD THEREOF  
; NUMBER OF SEQUENCES: 566  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fulbright & Jaworski L.L.P.  
; STREET: 1301 McKinney, Suite 5100  
; CITY: Houston  
; STATE: Texas  
; COUNTRY: U.S.A.  
; ZIP: 77010-3095  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/859,954  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 08/632,782  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Paul, Thomas D.  
; REGISTRATION NUMBER: 32,714  
; REFERENCE/DOCKET NUMBER: D-5900  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 713/651-5325  
; TELEFAX: 713/651-5246  
; INFORMATION FOR SEQ ID NO: 75:

SEQUENCE CHARACTERISTICS:  
LENGTH: 8 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: /desc = "oligonucleotide"  
HYPOTHETICAL: YES  
ANTI-SENSE: YES  
US-08-859-954-75

Query Match 12.0%; Score 2.4; DB 1; Length 8;  
Best Local Similarity 75.0%; Pred. No. 20;  
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12  
Db 3 AGAC 6

RESULT 43  
US-08-859-954-264  
Sequence 264, Application US/08859954  
Patent No. 6083695  
GENERAL INFORMATION:  
APPLICANT: Hardin, Susan H.  
APPLICANT: Homayouni, Ramin  
APPLICANT: Hardin, Paul E.  
TITLE OF INVENTION: Design and Optimized Primer Library for  
TITLE OF INVENTION: Gene Sequencing and Method Thereof  
NUMBER OF SEQUENCES: 566  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fulbright & Jaworski L.L.P.  
CITY: Houston  
STATE: Texas  
COUNTRY: U.S.A.  
ZIP: 77010-3095  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/859,954  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/632,782  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Paul, Thomas D.  
REGISTRATION NUMBER: 32,714  
REFERENCE/DOCKET NUMBER: D-5900  
TELEPHONE: 713/651-5325  
TELEFAX: 713/651-5246  
INFORMATION FOR SEQ ID NO: 264:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 8 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: /desc = "oligonucleotide"  
HYPOTHETICAL: YES  
ANTI-SENSE: YES  
US-08-859-954-264

Query Match 12.0%; Score 2.4; DB 1; Length 8;  
Best Local Similarity 75.0%; Pred. No. 20;  
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12  
Db 3 AGAC 6

RESULT 44  
US-08-859-954-44/c  
Sequence 44, Application US/08859954  
Patent No. 6083695  
GENERAL INFORMATION:  
APPLICANT: Hardin, Susan H.  
APPLICANT: Homayouni, Ramin  
APPLICANT: Hardin, Paul E.  
TITLE OF INVENTION: Design and Optimized Primer Library for  
TITLE OF INVENTION: Gene Sequencing and Method Thereof  
NUMBER OF SEQUENCES: 566  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fulbright & Jaworski L.L.P.  
CITY: Houston  
STATE: Texas  
COUNTRY: U.S.A.  
ZIP: 77010-3095  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/859,954  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/632,782  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Paul, Thomas D.  
REGISTRATION NUMBER: 32,714  
REFERENCE/DOCKET NUMBER: D-5900  
TELEPHONE: 713/651-5325  
TELEFAX: 713/651-5246  
INFORMATION FOR SEQ ID NO: 44:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 8 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: other nucleic acid  
DESCRIPTION: /desc = "oligonucleotide"  
HYPOTHETICAL: YES  
ANTI-SENSE: YES  
US-08-859-954-44

Query Match 12.0%; Score 2.4; DB 1; Length 8;  
Best Local Similarity 75.0%; Pred. No. 20;  
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12  
Db 5 AGAC 2

RESULT 45  
US-08-859-954-74  
Sequence 74, Application US/08859954  
Patent No. 6083695  
GENERAL INFORMATION:  
APPLICANT: Hardin, Susan H.  
APPLICANT: Homayouni, Ramin  
APPLICANT: Hardin, Paul E.  
TITLE OF INVENTION: Design and Optimized Primer Library for  
TITLE OF INVENTION: Gene Sequencing and Method Thereof

```
;
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 74:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
;
US-08-859-954-74

Query Match 12.0%; Score 2.4; DB 1; Length 8;
Best Local Similarity 75.0%; Pred. No. 20;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
Db 3 AGAC 6

RESULT 46
US-08-859-954-401
; Sequence 401, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
```

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; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 401:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
;
US-08-859-954-401

Query Match 12.0%; Score 2.4; DB 1; Length 8;
Best Local Similarity 75.0%; Pred. No. 20;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
Db 5 AGAC 8

RESULT 47
US-08-859-954-263
; Sequence 263, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 263:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
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; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: other nucleic acid  
; DESCRIPTION: /desc = "oligonucleotide"  
; HYPOTHETICAL: YES  
; ANTI-SENSE: YES  
US-08-859-954-263

Query Match 10.0%; Score 2; DB 1; Length 8;  
Best Local Similarity 100.0%; Pred.No. 20;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 9 AG 10  
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DB 3 AG 4

RESULT 48  
US-09-579-536C-43  
; Sequence 43, Application US/09579536C  
; Patent No. 6716974  
; GENERAL INFORMATION:  
; APPLICANT: MACIAG, Thomas  
; APPLICANT: ZIMRIN, Ann  
; APPLICANT: SMALL, Deena  
; APPLICANT: PRUDOVSKY, Igor  
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC METHODS AND COMPOSITIONS BASED ON JAGG  
; FILE REFERENCE: 053689-5002-01  
; CURRENT APPLICATION NUMBER: US/09/579,536C  
; CURRENT FILING DATE: 2000-05-24  
; PRIOR APPLICATION NUMBER: US 09/199,865  
; PRIOR FILING DATE: 1998-11-25  
; PRIOR APPLICATION NUMBER: PCT/US97/09407  
; PRIOR FILING DATE: 1997-05-30  
; PRIOR APPLICATION NUMBER: US 60/018,841  
; PRIOR FILING DATE: 1996-05-31  
; NUMBER OF SEQ ID NOS: 56  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 43  
; LENGTH: 10  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-579-536C-43

Query Match 10.0%; Score 2; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred.No. 14;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 9 AG 10  
||  
DB 2 AG 3

Search completed: April 23, 2006, 11:44:45  
Job time : 1 secs

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AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.  
TITLE Myosin-like gene expressed in human heart and muscle  
JOURNAL Patent: WO 0192524-A 9344 06-DEC-2001;  
Aeomica, Inc. (US)  
FEATURES Location/Qualifiers  
source 1..17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
Query Match 69.0%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.5;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 4 TCTCCAGTCTCTTCGTT 20  
Db 17 TCCCCAGCCTCTTCGTT 1  
RESULT 2  
LOCUS CQ624605/c 17 bp DNA linear PAT 02-FEB-2004  
DEFINITION Sequence 9345 from Patent WO0192524.  
ACCESSION CQ624605  
VERSION CQ624605.1 GI:41674823  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
REFERENCE 1  
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.  
TITLE Myosin-like gene expressed in human heart and muscle  
JOURNAL Patent: WO 0192524-A 9345 06-DEC-2001;  
Aeomica, Inc. (US)  
FEATURES Location/Qualifiers  
source 1..17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
Query Match 69.0%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.5;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 3 GTCTCCAGTCTCTTCGTT 19  
Db 17 GTCCCCAGCCTCTTCGTT 1  
RESULT 3  
LOCUS CQ624606/c 17 bp DNA linear PAT 02-FEB-2004  
DEFINITION Sequence 9346 from Patent WO0192524.  
ACCESSION CQ624606  
VERSION CQ624606.1 GI:41674824  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
REFERENCE 1  
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.  
TITLE Myosin-like gene expressed in human heart and muscle  
JOURNAL Patent: WO 0192524-A 9346 06-DEC-2001;  
Aeomica, Inc. (US)  
FEATURES Location/Qualifiers  
source 1..17

AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.  
TITLE Myosin-like gene expressed in human heart and muscle  
JOURNAL Patent: WO 0192524-A 9344 06-DEC-2001;  
Aeomica, Inc. (US)  
FEATURES Location/Qualifiers  
source 1..17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
Query Match 69.0%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.5;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 4 TCTCCAGTCTCTTCGTT 20  
Db 17 TCCCCAGCCTCTTCGTT 1  
RESULT 2  
LOCUS CQ624605/c 17 bp DNA linear PAT 02-FEB-2004  
DEFINITION Sequence 9345 from Patent WO0192524.  
ACCESSION CQ624605  
VERSION CQ624605.1 GI:41674823  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
REFERENCE 1  
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.  
TITLE Myosin-like gene expressed in human heart and muscle  
JOURNAL Patent: WO 0192524-A 9345 06-DEC-2001;  
Aeomica, Inc. (US)  
FEATURES Location/Qualifiers  
source 1..17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
Query Match 69.0%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.5;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 3 GTCTCCAGTCTCTTCGTT 19  
Db 17 GTCCCCAGCCTCTTCGTT 1  
RESULT 3  
LOCUS CQ624606/c 17 bp DNA linear PAT 02-FEB-2004  
DEFINITION Sequence 9346 from Patent WO0192524.  
ACCESSION CQ624606  
VERSION CQ624606.1 GI:41674824  
KEYWORDS Homo sapiens (human)  
SOURCE Homo sapiens  
ORGANISM Homo sapiens  
REFERENCE 1  
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.  
TITLE Myosin-like gene expressed in human heart and muscle  
JOURNAL Patent: WO 0192524-A 9346 06-DEC-2001;  
Aeomica, Inc. (US)  
FEATURES Location/Qualifiers  
source 1..17

AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.  
TITLE Myosin-like gene expressed in human heart and muscle  
JOURNAL Patent: WO 0192524-A 9344 06-DEC-2001;  
Aeomica, Inc. (US)  
FEATURES Location/Qualifiers  
source 1..17  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"  
Query Match 69.0%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.5;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 2 TGTCTCCAGTCTCTTCG 18  
Db 17 TGTCCCCAGCCTCTTCG 1  
RESULT 4  
LOCUS AR465667/c 17 bp DNA linear PAT 20-FEB-2004  
DEFINITION Sequence 9344 from patent US 6686188.  
ACCESSION AR465667  
VERSION AR465667.1 GI:42700724  
KEYWORDS Unknown.  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.  
TITLE Polynucleotide encoding a human myosin-like polypeptide expressed predominantly in heart and muscle  
JOURNAL Patent: US 6686188-A 9344 03-FEB-2004;  
Amersham PLC; Buckinghamshire;  
GBX;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
/mol\_type="genomic DNA"  
Query Match 69.0%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.5;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 4 TCTCCAGTCTCTTCGTT 20  
Db 17 TCCCCAGCCTCTTCGTT 1  
RESULT 5  
LOCUS AR465668/c 17 bp DNA linear PAT 20-FEB-2004  
DEFINITION Sequence 9345 from patent US 6686188.  
ACCESSION AR465668  
VERSION AR465668.1 GI:42700725  
KEYWORDS Unknown.  
SOURCE Unknown.  
ORGANISM Unclassified.  
REFERENCE 1 (bases 1 to 17)  
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.  
TITLE Polynucleotide encoding a human myosin-like polypeptide expressed predominantly in heart and muscle  
JOURNAL Patent: US 6686188-A 9345 03-FEB-2004;  
Amersham PLC; Buckinghamshire;  
GBX;  
FEATURES Location/Qualifiers  
source 1..17  
/organism="unknown"  
/mol\_type="genomic DNA"  
Query Match 69.0%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 1.5;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 3 GTCTCCAGTCTCTTCGTT 19

Db	17 GTCCCGAGCCTCTTCG 1	17 GTCCCGAGCCTCTTCG 1	17 bp DNA linear PAT 20-FEB-2004
RESULT 6	AR465669/c	AR465669	Sequence 9346 from patent US 6686188.
LOCUS			
DEFINITION			
ACCESSION			
VERSION			
KEYWORDS			
SOURCE			
ORGANISM			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
FEATURES			
source			
Query Match	69.0%;	Score 13.8;	DB 1; Length 17;
Best Local Similarity	88.2%;	Pred. No. 1.5;	Indels 0; Gaps 0;
Matches	15;	Conservative 0;	Mismatches 2;
QY	2 TGTCTCCAGTCTCTTCG 18		
DB	17 TGTCCCGAGCCTCTTCG 1		
RESULT 7	CQ835687/c	CQ835687	Sequence 745 from Patent WO2004059001.
LOCUS			
DEFINITION			
ACCESSION			
VERSION			
KEYWORDS			
SOURCE			
ORGANISM			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
FEATURES			
source			
Query Match	47.0%;	Score 9.4;	DB 1; Length 11;
Best Local Similarity	90.9%;	Pred. No. 11;	Indels 0; Gaps 0;
Matches	10;	Conservative 0;	Mismatches 1;
QY	1 TTGTCTCCAGT 11		
DB	11 TTGTCTGCAGT 1		
RESULT 8	CQ836521/c	CQ836521	Sequence 1579 from Patent WO2004059001.
LOCUS			
DEFINITION			

```

REFERENCE 1
AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 9409 11-JUL-2002; (DE)
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES   Location/Qualifiers
            source
              1. .11
                /organism="Homo sapiens"
                /mol_type="unassigned DNA"
                /db_xref="taxon:9606"

Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 11;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 CCAGTCTCTTC 17
Db 11 CCAGCCTCTTC 1

RESULT 11
AX471575/c
LOCUS      AX471575 11 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 1152 from Patent WO02053773.
ACCESSION  AX471575
VERSION     AX471575.1 GI:22206700
KEYWORDS    Homo sapiens (human)
SOURCE      Homo sapiens
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Hominidae; Homo.
REFERENCE 1
AUTHORS    Hofmann,K., Conradt,M. and Petersohn,D.
TITLE      Method for determining skin stress or skin ageing in vitro
JOURNAL    Patent: WO 02053773-A 1152 11-JUL-2002;
            HENKEL KGAA (DE)
FEATURES   Location/Qualifiers
            source
              1. .11
                /organism="Homo sapiens"
                /mol_type="unassigned DNA"
                /db_xref="taxon:9606"

Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 AGTCTCTTC 17
Db 10 AGTCTCTTC 2

RESULT 12
AX623703/c
LOCUS      AX623703 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 744 from Patent WO02053774.
ACCESSION  AX623703
VERSION     AX623703.1 GI:28451644
KEYWORDS    Homo sapiens (human)
SOURCE      Homo sapiens
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Hominidae; Homo.
REFERENCE 1
AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 744 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES   Location/Qualifiers
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Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TGTCTCCAG 10
Db 11 TGTCTCCAG 3

RESULT 13
AX626145/c
LOCUS      AX626145 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 3186 from Patent WO02053774.
ACCESSION  AX626145
VERSION     AX626145.1 GI:28454183
KEYWORDS    Homo sapiens (human)
SOURCE      Homo sapiens
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Hominidae; Homo.
REFERENCE 1
AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 3186 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES   Location/Qualifiers
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Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 AGTCTCTTC 17
Db 10 AGTCTCTTC 2

RESULT 14
AX626980/c
LOCUS      AX626980 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 4021 from Patent WO02053774.
ACCESSION  AX626980
VERSION     AX626980.1 GI:28455018
KEYWORDS    Homo sapiens (human)
SOURCE      Homo sapiens
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Hominidae; Homo.
REFERENCE 1
AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 4021 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES   Location/Qualifiers
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Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TGTCTCCAG 10
Db 3 TGTCTCCAG 11

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RESULT 15
LOCUS AX629950 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 6991 from Patent WO02053774.
ACCESSION AX629950
VERSION AX629950.1 GI:28457988
KEYWORDS Homo sapiens (human)
SOURCE
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 6991 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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/mol_type="unassigned DNA"
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Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 TGTCTCCAG 10
Db 3 TGTCTCCAG 11
RESULT 16
LOCUS AX631124/c 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 8165 from Patent WO02053774.
ACCESSION AX631124
VERSION AX631124.1 GI:28459168
KEYWORDS Homo sapiens (human)
SOURCE
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 8165 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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/organism="Homo sapiens"
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Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 TGTCTCCAG 10
Db 11 TGTCTCCAG 3
RESULT 17
LOCUS AX924254/c 11 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 39 from Patent EP1350841.
ACCESSION AX924254
VERSION AX924254.1 GI:40217178
KEYWORDS

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SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS Schoenbrunner,N.J., Myers,T.W. and Gelfand,D.H.
TITLE Thermostable or thermoactive DNA polymerase with attenuated
3'-5' exonuclease activity
JOURNAL Patent: EP 1350841-A 39 08-OCT-2003;
Roche Diagnostics GmbH (DE) ; F. HOFFMANN-LA ROCHE AG (CH)
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/mol_type="unassigned DNA"
/db_xref="taxon:32630"
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 11 TCTCTTCGT 19
Db 11 TCTCTTCGT 3
RESULT 18
LOCUS A04820 10 bp DNA linear PAT 14-JUL-1993
DEFINITION Nucleotide sequence 8 from patent number EP0143081.
ACCESSION A04820
VERSION A04820.1 GI:411098
KEYWORDS synthetic construct
SOURCE synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS Meyhack,B. and Hinnen,A.
TITLE Synthesis of tissue plasminogen activator(TPA) by yeast
JOURNAL Patent: EP 0143081-A 8 29-MAY-1985;
CIBA-GEIGY AG
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Location/Qualifiers
/organism="synthetic construct"
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Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 8 CAGTCTCTTC 17
Db 10 CAGTGTCTTC 1
RESULT 19
LOCUS BD239234/c 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239234
VERSION BD239234.1 GI:33049004
KEYWORDS JP 2002534056-A/652.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 652 15-OCT-2002;
GENZYME CORP
COMMENT
OS Homo sapiens (human)
PN JP 2002534056-A/652

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PD 15-OCT-2002
PR 18-JUN-1999 JP 2000554749
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19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
19-JUN-1998 US 60/08997,19-JUN-1998 US 60/090079 PR
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19-JUN-1998 US 60/090078,19-JUN-1998 US 60/090047 PR
19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19,
PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
G01N37/00
PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
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Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TGTCTCCAGT 11
Db 10 TGGCTCCAGT 1

RESULT 20
I86909
LOCUS I86909 10 bp DNA linear PAT 10-JUN-1998
DEFINITION Sequence 9 from patent US 5702926.
ACCESSION I86909
VERSION I86909.1 GI:3206627
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1 (bases 1 to 10)
AUTHORS Fraiser,M.S. and Walker,G.Terrance.
TITLE Nicking of DNA using boronated nucleotides
JOURNAL Patent: US 5702926-A 9 30-DEC-1997;
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Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTC 12
Db 1 GTCTCCAATC 10

RESULT 21
AR492617/c
LOCUS AR492617 10 bp DNA linear PAT 15-MAY-2004

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DEFINITION Sequence 43 from patent US 6716974.
ACCESSION AR492617
VERSION AR492617.1 GI:47262128
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1 (bases 1 to 10)
AUTHORS MacIag,T., Zimin,A.B., Small,D.J. and Prudovsky,I.A.
TITLE Therapeutic and diagnostic methods and compositions based on
jagged/notch proteins and nucleic acids
JOURNAL Patent: US 6716974-A 43 06-APR-2004;
Maine Medical Center Research Institute; Scarborough, ME
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Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 11 TCTCTTCGTT 20
Db 10 TCTCTTCCTT 1

RESULT 22
AR1620/c
LOCUS AR1620 10 bp DNA linear PAT 17-NOV-1993
DEFINITION oligonucleotide 'M''.
ACCESSION AR1620
VERSION AR1620.1 GI:489366
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1 (bases 1 to 10)
AUTHORS Ueda,I., Niwa,M., Saito,Y., Sato,S., Ono,H. and Kitaguchi,T.
TITLE 59 Valine insulin-like growth factor I and process for production
thereof
JOURNAL Patent: EP 0158892-A 116 23-OCT-1985;
FUJISAWA PHARMACEUTICAL CO., LTD
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                /organism="synthetic construct"
                /mol_type="unassigned DNA"
                /db_xref="taxon:32630"

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCCTCC 8
Db 8 TTGTCCTCC 1

RESULT 23
AR35162/c
LOCUS AR35162 10 bp DNA linear PAT 06-DEC-1996
DEFINITION Synthetic IGF-I gene oligo.
ACCESSION AR35162
VERSION AR35162.1 GI:1926821
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1 (bases 1 to 10)
AUTHORS Ueda,I., Niwa,M., Saitoh,S., Saitoh,Y. and Kusunoki,C.
TITLE Process for production of insulin-like growth factor I and plasmid
for production thereof
JOURNAL Patent: EP 0219814-A 112 29-APR-1987;

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Query Match
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  Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCC 8
Db 8 TTGTCTCC 1

RESULT 24
BD065278
LOCUS BD065278 10 bp DNA linear PAT 27-AUG-2002
DEFINITION Characterization of the yeast transcriptome.
ACCESSION BD065278
VERSION BD065278.1 GI:22610881
KEYWORDS JP 2001509017-A/214.
SOURCE Saccharomyces cerevisiae (baker's yeast)
ORGANISM Saccharomyces cerevisiae
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomycetes.
REFERENCE
  1 (bases 1 to 10)
  Velculescu, V.E., Vogelstein, B. and Kinzler, K.W.
  Characterization of the yeast transcriptome
  Patent: JP 2001509017-A 214 10-JUL-2001;
  THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
  OS Saccharomyces cerevisiae (yeast)
  PN JP 2001509017-A/214
  PD 10-JUL-2001
  PF 22-JAN-1998 JP 1998532117
  PR 23-JAN-1997 US 60/035917
  PI VICTOR E VELCULESCU, BERT VOGELSTEIN, KENNETH W KINZLER PC
  C12N15/10, C12N15/31, C07K14/395, C12Q1/68, C12Q1/02 CC
  Characterization of the yeast transcriptome
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    /mol_type="genomic DNA"
    /db_xref="taxon:4932"

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  source
    Location/Qualifiers
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      /mol_type="genomic DNA"
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Query Match
  Best Local Similarity 40.0%; Score 8; DB 1; Length 10;
  Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11
Db 1 TCTCCAGT 8

RESULT 25
BD161225
LOCUS BD161225 10 bp DNA linear PAT 17-JAN-2003
DEFINITION Human activated Th1 and Th2 cell expression genes.
ACCESSION BD161225
VERSION BD161225.1 GI:27866983
KEYWORDS JP 2002186482-A/47.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
  1 (bases 1 to 10)
  Nagai, S., Matsushima, K. and Hashimoto, S.
  Human activated Th1 and Th2 cell expression genes

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Query Match
  Best Local Similarity 40.0%; Score 8; DB 1; Length 10;
  Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 TCCAGTCT 13
Db 8 TCCAGTCT 1

RESULT 27
CS101372
LOCUS CS101372 10 bp DNA linear PAT 10-JUN-2005
DEFINITION Sequence 21 from Patent WO2005045021.

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JOURNAL Patent: JP 2002186482-A 47 02-JUL-2002;
COMMENT JAPAN SCIENCE AND TECHNOLOGY CORP
  OS Homo sapiens (human)
  PN JP 2002186482-A/47
  PD 02-JUL-2002
  PF 19-DEC-2000 JP 2000385816
  PI SHIGENORI NAGAI, KOJI MATSUSHIMA, SHINICHI HASHIMOTO PC
  C12N15/09, C07K14/47, C07K16/18, C12P21/08, C12N15/00 CC Human
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Query Match
  Best Local Similarity 40.0%; Score 8; DB 1; Length 10;
  Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11
Db 3 TCTCCAGT 10

RESULT 26
BD161349/c
LOCUS BD161349 10 bp DNA linear PAT 17-JAN-2003
DEFINITION Human activated Th1 and Th2 cell expression genes.
ACCESSION BD161349
VERSION BD161349.1 GI:27867107
KEYWORDS JP 2002186482-A/171.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
  1 (bases 1 to 10)
  Nagai, S., Matsushima, K. and Hashimoto, S.
  Human activated Th1 and Th2 cell expression genes
  Patent: JP 2002186482-A 171 02-JUL-2002;
  JOURNAL JAPAN SCIENCE AND TECHNOLOGY CORP
  COMMENT
  OS Homo sapiens (human)
  PN JP 2002186482-A/171
  PD 02-JUL-2002
  PF 19-DEC-2000 JP 2000385816
  PI SHIGENORI NAGAI, KOJI MATSUSHIMA, SHINICHI HASHIMOTO PC
  C12N15/09, C07K14/47, C07K16/18, C12P21/08, C12N15/00 CC Human
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Query Match
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  Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 TCCAGTCT 13
Db 8 TCCAGTCT 1

RESULT 27
CS101372
LOCUS CS101372 10 bp DNA linear PAT 10-JUN-2005
DEFINITION Sequence 21 from Patent WO2005045021.

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ACCESSION      CS101372
VERSION        CS101372.1  GI:67509818
KEYWORDS       .
SOURCE         synthetic construct
ORGANISM       other sequences; artificial sequences.
REFERENCE      1
AUTHORS        Desire,L.
TITLE          Bace455', an alternative splice variant of the human beta-secretase
JOURNAL        Patent: WO 2005045021-A 21 19-MAY-2005;
                Exonhit Therapeutics S.A. (FR)
FEATURES       1..10
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Query Match    40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches        8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy             8  CAGTCTCT 15
                |||||
Db             1  CAGTCTCT 8

RESULT 28
E27858/c
LOCUS          E27858
DEFINITION     Method for testing resistance of rice against Nilaparvata lugens
                Stal. DNA fragment and PCR marker.
ACCESSION      E27858
VERSION        E27858.1  GI:13018283
KEYWORDS       JP 1999206376-A/9.
SOURCE         unidentified
ORGANISM       unclassified.
REFERENCE      1 (bases 1 to 10)
AUTHORS        Takamichi,T., Hitoshi,N., Takako,T. and Norikuni,S.
TITLE          Method for testing resistance of rice against Nilaparvata lugens
JOURNAL        Stal. DNA fragment and PCR marker
                Patent: JP 1999206376-A 9 03-AUG-1999;
                AICHI PREF
COMMENT        OS Unidentified
                PN JP 1999206376-A/9
                PD 03-AUG-1999
                PF 22-JAN-1998 JP 1998010845
                PR
                PI TAKAMICHI TOYAMA,HITOSHI NAKAMAE,TAKAKO TSUJI,NORIKUNI SAKA PC
                (C12N15/09,C12Q1/68,G01N33/50)/(C12N15/09,C12R1/91),C12N15/00,PC
                CC
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Query Match    40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches        8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy             3  GTCTCCAG 10
                |||||
Db             10 GTCTCCAG 3

RESULT 29
E39559
LOCUS          E39559
DEFINITION     Genes with human dendritic cell expression.
ACCESSION      E39559
VERSION        E39559.1  GI:18621650
KEYWORDS       JP 2000279181-A/92.
SOURCE         Homo sapiens (human)
ORGANISM       Homo sapiens
                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
                Homnidae; Homo.
                1 (bases 1 to 10)
                Hashimoto,S., Matsushima,K. and Suzuki,T.
                Genes with human dendritic cell expression
                Patent: JP 2000279181-A 92 10-OCT-2000;
                SCIENCE & TECH AGENCY
                OS Homo sapiens (human)
                PN JP 2000279181-A/92
                PD 10-OCT-2000
                PF 01-APR-1999 JP 1999095481
                PR
                PI SHINICHI HASHIMOTO,KOJI MATSUSHIMA,TAKUJI SUZUKI PC
                C12N15/09,C07K14/475,C07K16/18,C12N15/00
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Query Match    40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches        8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy             4  TCTCCAGT 11
                |||||
Db             3  TCTCCAGT 10

RESULT 30
AR306857/c
LOCUS          AR306857
DEFINITION     Sequence 9 from patent US 6551476.
ACCESSION      AR306857
VERSION        AR306857.1  GI:31697257
KEYWORDS       .
SOURCE         Unknown.
ORGANISM       Unclassified.
REFERENCE      1 (bases 1 to 10)
AUTHORS        Scherba,E.S.
TITLE          Noble-metal coated inert anode for aluminum production
JOURNAL        Patent: US 6551476-A 9 22-APR-2003;
                Location/Qualifiers
FEATURES       1..10
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Query Match    40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches        8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy             5  CTCCAGTC 12
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Db             9  CTCCAGTC 2

RESULT 31
AX152455
LOCUS          AX152455
DEFINITION     Sequence 370 from Patent WO0138577.

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ACCESSION AX152455
VERSION AX152455.1 GI:14534106
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE Human transcriptomes
JOURNAL Patent: WO 0138577-A 370 31-MAY-2001;
The Johns Hopkins University (US)
FEATURES source
Location/Qualifiers
1..10
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11
|||||
Db 3 TCTCCAGT 10

RESULT 32
AX152820
LOCUS AX152820 10 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 735 from Patent WO0138577.
ACCESSION AX152820
VERSION AX152820.1 GI:14534471
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE Human transcriptomes
JOURNAL Patent: WO 0138577-A 735 31-MAY-2001;
The Johns Hopkins University (US)
FEATURES source
Location/Qualifiers
1..10
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 CAGTCTCT 15
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Db 1 CAGTCTCT 8

RESULT 33
AX301623
LOCUS AX301623 10 bp DNA linear PAT 30-NOV-2001
DEFINITION Sequence 337 from Patent WO0185941.
ACCESSION AX301623
VERSION AX301623.1 GI:17382706
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1

ACCESSION AX152455
VERSION AX152455.1 GI:14534106
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Versteeg,R. and Caron,H.N.
TITLE Myc targets
JOURNAL Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
FEATURES source
Location/Qualifiers
1..10
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 CAGTCTCT 15
|||||
Db 1 CAGTCTCT 8

RESULT 34
AX301660
LOCUS AX301660 10 bp DNA linear PAT 30-NOV-2001
DEFINITION Sequence 374 from Patent WO0185941.
ACCESSION AX301660
VERSION AX301660.1 GI:17382743
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Versteeg,R. and Caron,H.N.
TITLE Myc targets
JOURNAL Patent: WO 0185941-A 374 15-NOV-2001;
Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
FEATURES source
Location/Qualifiers
1..10
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11
|||||
Db 3 TCTCCAGT 10

RESULT 35
CS133813
LOCUS CS133813 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 355 from Patent WO2005058479.
ACCESSION CS133813
VERSION CS133813.1 GI:71793362
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Morgan,B.
TITLE Methods for synthesis of encoded libraries
JOURNAL Patent: WO 2005058479-A 355 30-JUN-2005;
Praecis Pharmaceuticals Inc. (US)
FEATURES source
Location/Qualifiers
1..9
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="synthetic construct"

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Query Match 37.0%; Score 7.4; DB 1; Length 9;  
Best Local Similarity 88.9%; Pred. No. 87;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 11 TCTCTTCGT 19  
||| |||  
Db 1 TCTCTTCGT 9

RESULT 36  
CS133814/c  
LOCUS CS133814 9 bp DNA  
DEFINITION Sequence 356 from Patent WO2005058479.  
ACCESSION CS133814  
VERSION CS133814.1 GI:71793363  
KEYWORDS .  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Morgan,B.  
TITLE Methods for synthesis of encoded libraries  
JOURNAL Patent: WO 2005058479-A 356 30-JUN-2005;  
Praecis Pharmaceuticals Inc. (US)  
FEATURES  
source  
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/organism="synthetic construct"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
/note="synthetic construct"

Query Match 37.0%; Score 7.4; DB 1; Length 9;  
Best Local Similarity 88.9%; Pred. No. 87;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCTCTTC 17  
||| |||  
Db 9 AGTCTCTC 1

RESULT 37  
CS133839  
LOCUS CS133839 9 bp DNA  
DEFINITION Sequence 381 from Patent WO2005058479.  
ACCESSION CS133839  
VERSION CS133839.1 GI:71793388  
KEYWORDS .  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Morgan,B.  
TITLE Methods for synthesis of encoded libraries  
JOURNAL Patent: WO 2005058479-A 381 30-JUN-2005;  
Praecis Pharmaceuticals Inc. (US)  
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source  
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/note="synthetic construct"

Query Match 37.0%; Score 7.4; DB 1; Length 9;  
Best Local Similarity 88.9%; Pred. No. 87;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 CCAGTCTCT 15  
||| |||  
Db 1 CCAGTCTGT 9

RESULT 38  
CS133878

LOCUS CS133878 9 bp DNA  
DEFINITION Sequence 420 from Patent WO2005058479.  
ACCESSION CS133878  
VERSION CS133878.1 GI:71793427  
KEYWORDS .  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Morgan,B.  
TITLE Methods for synthesis of encoded libraries  
JOURNAL Patent: WO 2005058479-A 420 30-JUN-2005;  
Praecis Pharmaceuticals Inc. (US)  
FEATURES  
source  
1..9  
/organism="synthetic construct"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
/note="synthetic construct"

Query Match 37.0%; Score 7.4; DB 1; Length 9;  
Best Local Similarity 88.9%; Pred. No. 87;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 5 CTCCTAGTCT 13  
||| |||  
Db 1 CTCCTAGTCT 9

RESULT 39  
CS133889  
LOCUS CS133889 9 bp DNA  
DEFINITION Sequence 431 from Patent WO2005058479.  
ACCESSION CS133889  
VERSION CS133889.1 GI:71793438  
KEYWORDS .  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Morgan,B.  
TITLE Methods for synthesis of encoded libraries  
JOURNAL Patent: WO 2005058479-A 431 30-JUN-2005;  
Praecis Pharmaceuticals Inc. (US)  
FEATURES  
source  
1..9  
/organism="synthetic construct"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
/note="synthetic construct"

Query Match 37.0%; Score 7.4; DB 1; Length 9;  
Best Local Similarity 88.9%; Pred. No. 87;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 11 TCTCTTCGT 19  
||| |||  
Db 1 TCGCTTCGT 9

RESULT 40  
CS133890/c  
LOCUS CS133890 9 bp DNA  
DEFINITION Sequence 432 from Patent WO2005058479.  
ACCESSION CS133890  
VERSION CS133890.1 GI:71793439  
KEYWORDS .  
SOURCE synthetic construct  
ORGANISM other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Morgan,B.  
TITLE Methods for synthesis of encoded libraries

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JOURNAL Patent: WO 2005058479-A 432 30-JUN-2005;
FEATURES Praecis Pharmaceuticals Inc. (US)
  source 1. .9
    /organism="synthetic construct"
    /mol_type="unassigned DNA"
    /db_xref="taxon:32630"
    /note="synthetic construct"

Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 87;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCTCTTC 17
Db 9 AGTCGCTTC 1

RESULT 41
CS133996/c
LOCUS CS133996 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 538 from Patent WO2005058479.
ACCESSION CS133996
VERSION CS133996.1 GI:71793545
KEYWORDS .
SOURCE synthetic construct
  ORGANISM synthetic construct
    other sequences; artificial sequences.
REFERENCE 1
AUTHORS Morgan,B.
TITLE Methods for synthesis of encoded libraries
JOURNAL Patent: WO 2005058479-A 538 30-JUN-2005;
  Praecis Pharmaceuticals Inc. (US)
  Location/Qualifiers
FEATURES 1. .9
  source /organism="synthetic construct"
    /mol_type="unassigned DNA"
    /db_xref="taxon:32630"
    /note="synthetic construct"

Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 87;
Matches 8; Conservative 0; Mismatches 1; Indels 1; Gaps 0;

Qy 10 GTCTCTTCG 18
Db 9 GTCTCTTCG 1

RESULT 42
CQ787902
LOCUS CQ787902 8 bp DNA linear PAT 24-MAR-2004
DEFINITION Sequence 208 from Patent WO2004020664.
ACCESSION CQ787902
VERSION CQ787902.1 GI:45722860
KEYWORDS .
SOURCE Bos taurus (cow)
  ORGANISM Bos taurus
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
    Pecora; Bovidae; Bovinae; Bos.
REFERENCE 1
AUTHORS Geldermann,H., Preuss,S. and Han,Y.
TITLE Polymorphic microsatellite loci in genes for pre-diagnostic
  purposes
JOURNAL Patent: WO 2004020664-A 208 11-MAR-2004;
  Universitaet Hohenheim (DE)
  Location/Qualifiers
FEATURES 1. .8
  source /organism="Bos taurus"
    /mol_type="unassigned DNA"
    /db_xref="taxon:9913"
  satellite 1. .8

repeat_unit 1 /note="R16, Allel H"
repeat_unit 3 /note="Anzahl der Wiederholungen: 4"
repeat_unit 5 /note="Anzahl der Wiederholungen: 13"
repeat_unit 8 /note="Anzahl der Wiederholungen: 3"
repeat_unit 8 /note="Anzahl der Wiederholungen: 4"

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 98;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TGTCTCC 8
Db 1 TGTCTCC 7

RESULT 43
AX687122
LOCUS AX687122 8 bp DNA linear PAT 31-MAR-2003
DEFINITION Sequence 43 from Patent WO03008638.
ACCESSION AX687122
VERSION AX687122.1 GI:29409617
KEYWORDS .
SOURCE synthetic construct
  ORGANISM synthetic construct
    other sequences; artificial sequences.
REFERENCE 1
AUTHORS Schweitzer,M., Anderson,R., Fiechtner,M., Mueller-Ibelser,J.,
  Raddatz,S., Bruecher,C., Windhab,N., Orwick,J., Schneider,E.,
  Pignot,M. and Kienle,S.
TITLE Sorting and immobilization system for nucleic acids using synthetic
  binding systems
JOURNAL Patent: WO 03008638-A 43 30-JAN-2003;
  Nanogen Recognomics GmbH (DE)
  Location/Qualifiers
FEATURES 1. .8
  source /organism="synthetic construct"
    /mol_type="genomic DNA"
    /db_xref="taxon:32630"
    /note="Synthetic binding system"

misc_feature 1. .8
  /note="pyranosyl RNA"

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 98;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCAGTCT 13
Db 1 CCAGTCT 7

RESULT 44
AX687123/c
LOCUS AX687123 8 bp DNA linear PAT 31-MAR-2003
DEFINITION Sequence 44 from Patent WO03008638.
ACCESSION AX687123
VERSION AX687123.1 GI:29409618
KEYWORDS .
SOURCE synthetic construct
  ORGANISM synthetic construct
    other sequences; artificial sequences.
REFERENCE 1
AUTHORS Schweitzer,M., Anderson,R., Fiechtner,M., Mueller-Ibelser,J.,
  Raddatz,S., Bruecher,C., Windhab,N., Orwick,J., Schneider,E.,
  Pignot,M. and Kienle,S.
TITLE Sorting and immobilization system for nucleic acids using synthetic
  binding systems
JOURNAL Patent: WO 03008638-A 44 30-JAN-2003;
  Nanogen Recognomics GmbH (DE)

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FEATURES
    source
        Location/Qualifiers
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        /organism="synthetic construct"
        /mol_type="genomic DNA"
        /db_xref="taxon:32630"
        /note="Synthetic binding system"
    misc_feature
        1..8
        /note="pyranosyl RNA"

Query Match
Best Local Similarity 35.0%; Score 7; DB 1; Length 8;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCAGTCT 13
    |||||
Db 8 CCAGTCT 2

RESULT 45
CS133878/c
LOCUS CS133878 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 420 from Patent WO2005058479.
ACCESSION CS133878
VERSION CS133878.1 GI:71793427
KEYWORDS .
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Morgan,B.
TITLE Methods for synthesis of encoded libraries
JOURNAL Patent: WO 2005058479-A 420 30-JUN-2005;
Praecis Pharmaceuticals Inc. (US)
FEATURES
    source
        Location/Qualifiers
        1..9
        /organism="synthetic construct"
        /mol_type="unassigned DNA"
        /db_xref="taxon:32630"
        /note="synthetic construct"

Query Match
Best Local Similarity 25.0%; Score 5; DB 1; Length 9;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 AGTCT 13
    |||||
Db 9 AGTCT 5

RESULT 46
CQ835687
LOCUS CQ835687 11 bp DNA linear PAT 29-JUL-2004
DEFINITION Sequence 745 from Patent WO2004059001.
ACCESSION CQ835687
VERSION CQ835687.1 GI:50835221
KEYWORDS .
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Schlottmann,K., Gassenmeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
TITLE Method for determining markers of human facial skin
JOURNAL Patent: WO 2004059001-A 745 15-JUL-2004;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
    source
        Location/Qualifiers
        1..11
        /organism="Homo sapiens"
        /mol_type="unassigned DNA"
        /db_xref="taxon:9606"

Query Match
Best Local Similarity 100.0%; Score 7; DB 1; Length 8;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCAGTCT 13
    |||||
Db 8 CCAGTCT 2

RESULT 47
CS133839/c
LOCUS CS133839 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 381 from Patent WO2005058479.
ACCESSION CS133839
VERSION CS133839.1 GI:71793388
KEYWORDS .
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Morgan,B.
TITLE Methods for synthesis of encoded libraries
JOURNAL Patent: WO 2005058479-A 381 30-JUN-2005;
Praecis Pharmaceuticals Inc. (US)
FEATURES
    source
        Location/Qualifiers
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        /mol_type="unassigned DNA"
        /db_xref="taxon:32630"
        /note="synthetic construct"

Query Match
Best Local Similarity 83.3%; Score 4.4; DB 1; Length 9;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 8 CAGTCT 13
    |||||
Db 8 CAGACT 3

RESULT 48
CS101372/c
LOCUS CS101372 10 bp DNA linear PAT 10-JUN-2005
DEFINITION Sequence 21 from Patent WO2005045021.
ACCESSION CS101372
VERSION CS101372.1 GI:67509818
KEYWORDS .
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Desire,L.
TITLE Bace455, an alternative splice variant of the human beta-secretase
JOURNAL Patent: WO 2005045021-A 21 19-MAY-2005;
Exonhit Therapeutics S.A. (FR)
FEATURES
    source
        Location/Qualifiers
        1..10
        /organism="synthetic construct"
        /mol_type="unassigned DNA"
        /db_xref="taxon:32630"
        /note="primer"

Query Match
Best Local Similarity 21.0%; Score 4.2; DB 1; Length 10;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 7 CCAGTCTCT 15
    |||||
Db 10 CCAGAGACT 2

RESULT 49
E27858

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LOCUS E27858 10 bp DNA linear PAT 18-JUN-2001  
 DEFINITION Method for testing resistance of rice against Nilaparvata lugens  
 Stal, DNA fragment and PCR marker.  
 ACCESSION E27858  
 VERSION E27858.1 GI:13018283  
 KEYWORDS JP 1999206376-A/9.  
 SOURCE unidentified  
 ORGANISM unidentified  
 unclassified.  
 REFERENCE 1 (bases 1 to 10)  
 AUTHORS Takamichi,T., Hitoshi,N., Takako,T. and Norikuni,S.  
 TITLE Method for testing resistance of rice against Nilaparvata lugens  
 JOURNAL Stal, DNA fragment and PCR marker  
 Patent: JP 1999206376-A 9 03-AUG-1999;  
 AICHI PREF  
 OS Unidentified  
 PN JP 1999206376-A/9  
 PD 03-AUG-1999  
 PF 22-JAN-1998 JP 1998010845  
 PR  
 PT TAKAMICHI TOYAMA,HITOSHI NAKAMAE,TAKAKO TSUII,NORIKUNI SAKA PC  
 C12N15/09,C12Q1/68,G01N33/50//(C12N15/09,C12R1.91),C12N15/00, PC  
 (C12N15/00,C12R1.91)  
 CC  
 FH Key Location/Qualifiers  
 FT source 1..10  
 FT /organism='Unidentified'.  
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 source Location/Qualifiers  
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 /organism='unidentified'  
 /mol\_type='genomic DNA'  
 /db\_xref='taxon:32644'  
 Query Match 21.0%; Score 4.2; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 53;  
 Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 Qy 4 TCTCCAGTC 12  
 |||||  
 Db 2 TCTGGAGAC 10  
 RESULT 50  
 AR306857  
 LOCUS  
 DEFINITION Sequence 9 from patent US 6551476.  
 ACCESSION AR306857  
 VERSION AR306857.1 GI:31697257  
 KEYWORDS  
 SOURCE Unknown.  
 ORGANISM Unclassified.  
 REFERENCE 1 (bases 1 to 10)  
 AUTHORS Scherba,E.S.  
 TITLE Noble-metal coated inert anode for aluminum production  
 JOURNAL Patent: US 6551476-A 9 22-APR-2003;  
 FEATURES Location/Qualifiers  
 source 1..10  
 /organism='unknown'  
 /mol\_type='genomic DNA'  
 Query Match 21.0%; Score 4.2; DB 1; Length 10;  
 Best Local Similarity 66.7%; Pred. No. 53;  
 Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 Qy 3 GTCTCCAGT 11  
 |||||  
 Db 2 GACTGGAGT 10  
 RESULT 51  
 AX629950/c  
 LOCUS  
 DEFINITION Sequence 9 from patent WO02053774.  
 ACCESSION AX629950  
 VERSION AX629950.1 GI:28455018  
 KEYWORDS Homo sapiens (human)  
 SOURCE Homo sapiens  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
 Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.  
 TITLE Method for determining homeostasis of the skin  
 JOURNAL Patent: WO 02053774-A 6991 11-JUL-2002;  
 Henkel Kommanditgesellschaft auf Aktien (DE)  
 FEATURES Location/Qualifiers  
 source 1..11  
 /organism='Homo sapiens'  
 /mol\_type='unassigned DNA'  
 /db\_xref='taxon:9606'  
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 Best Local Similarity 100.0%; Pred. No. 50;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 8 CACT 11  
 |||||  
 Db 4 CAGT 1  
 RESULT 52  
 A04820  
 LOCUS  
 DEFINITION Nucleotide sequence 8 from patent number EP0143081.  
 ACCESSION A04820  
 VERSION A04820.1 GI:411098  
 KEYWORDS  
 SOURCE synthetic construct  
 ORGANISM other sequences; artificial sequences.  
 REFERENCE 1 (bases 1 to 10)  
 AUTHORS Meyhack,B. and Hinnen,A.  
 TITLE Synthesis of tissue plasminogen activator(TPA) by yeast  
 JOURNAL Patent: EP 0143081-A 8 29-MAY-1985;  
 CIBA-GEIGY AG  
 FEATURES Location/Qualifiers  
 source 1..10  
 /organism='synthetic construct'  
 /mol\_type='unassigned DNA'  
 /db\_xref='taxon:32630'  
 Query Match 19.0%; Score 3.8; DB 1; Length 10;  
 Best Local Similarity 71.4%; Pred. No. 57;  
 Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 9 AGTCTCT 15  
 |||||  
 Db 3 AGACACT 9  
 RESULT 53  
 AX626980/c  
 LOCUS  
 DEFINITION Sequence 4021 from Patent WO02053774.  
 ACCESSION AX626980  
 VERSION AX626980.1 GI:28455018  
 KEYWORDS Homo sapiens (human)  
 SOURCE Homo sapiens  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
 Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.

DEFINITION Sequence 6991 from Patent WO02053774.  
 ACCESSION AX629950  
 VERSION AX629950.1 GI:28457988  
 KEYWORDS Homo sapiens (human)  
 SOURCE Homo sapiens  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
 Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.  
 TITLE Method for determining homeostasis of the skin  
 JOURNAL Patent: WO 02053774-A 6991 11-JUL-2002;  
 Henkel Kommanditgesellschaft auf Aktien (DE)  
 FEATURES Location/Qualifiers  
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 /organism='Homo sapiens'  
 /mol\_type='unassigned DNA'  
 /db\_xref='taxon:9606'  
 Query Match 20.0%; Score 4; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 50;  
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 8 CACT 11  
 |||||  
 Db 4 CAGT 1  
 RESULT 52  
 A04820  
 LOCUS  
 DEFINITION Nucleotide sequence 8 from patent number EP0143081.  
 ACCESSION A04820  
 VERSION A04820.1 GI:411098  
 KEYWORDS  
 SOURCE synthetic construct  
 ORGANISM other sequences; artificial sequences.  
 REFERENCE 1 (bases 1 to 10)  
 AUTHORS Meyhack,B. and Hinnen,A.  
 TITLE Synthesis of tissue plasminogen activator(TPA) by yeast  
 JOURNAL Patent: EP 0143081-A 8 29-MAY-1985;  
 CIBA-GEIGY AG  
 FEATURES Location/Qualifiers  
 source 1..10  
 /organism='synthetic construct'  
 /mol\_type='unassigned DNA'  
 /db\_xref='taxon:32630'  
 Query Match 19.0%; Score 3.8; DB 1; Length 10;  
 Best Local Similarity 71.4%; Pred. No. 57;  
 Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 9 AGTCTCT 15  
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 Db 3 AGACACT 9  
 RESULT 53  
 AX626980/c  
 LOCUS  
 DEFINITION Sequence 4021 from Patent WO02053774.  
 ACCESSION AX626980  
 VERSION AX626980.1 GI:28455018  
 KEYWORDS Homo sapiens (human)  
 SOURCE Homo sapiens  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
 Hominidae; Homo.  
 REFERENCE 1  
 AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.

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TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 4021 11-JUL-2002;
           Henkel Kommanditgesellschaft auf Aktien (DE)
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  source    1. .11
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

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  Best Local Similarity 60.0%; Pred. No. 54;
  Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

  Qy 5 CTCGAGTCTC 14
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  Db 11 CTGGAGACAC 2

RESULT 54
AX687122/c
LOCUS      AX687122      8 bp      DNA      linear      PAT 31-MAR-2003
DEFINITION Sequence 43 from Patent WO03008638.
ACCESSION  AX687122
VERSION     AX687122.1 GI:29409617
KEYWORDS    .
SOURCE      synthetic construct
ORGANISM    synthetic construct
            other sequences; artificial sequences.
REFERENCE   1
AUTHORS     Schweitzer,M., Anderson,R., Fiechtner,M., Mueller-Ibelser,J.,
            Raddatz,S., Bruecher,C., Windhab,N., Orwick,J., Schneider,E.,
            Pignot,M. and Kienle,S.
TITLE       Sorting and immobilization system for nucleic acids using synthetic
            binding systems
JOURNAL     Patent: WO 03008638-A 43 30-JAN-2003;
            Nanogen Recognomics GmbH (DE)
FEATURES
  source    1. .8
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            /db_xref="taxon:32630"
            /note="Synthetic binding system"
  misc_feature 1. .8
            /note="pyranosyl RNA"

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  Best Local Similarity 80.0%; Pred. No. 98;
  Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

  Qy 9 AGTCT 13
      |||||
  Db 7 AGACT 3

RESULT 55
AX687123
LOCUS      AX687123      8 bp      DNA      linear      PAT 31-MAR-2003
DEFINITION Sequence 44 from Patent WO03008638.
ACCESSION  AX687123
VERSION     AX687123.1 GI:29409618
KEYWORDS    .
SOURCE      synthetic construct
ORGANISM    synthetic construct
            other sequences; artificial sequences.
REFERENCE   1
AUTHORS     Schweitzer,M., Anderson,R., Fiechtner,M., Mueller-Ibelser,J.,
            Raddatz,S., Bruecher,C., Windhab,N., Orwick,J., Schneider,E.,
            Pignot,M. and Kienle,S.
TITLE       Sorting and immobilization system for nucleic acids using synthetic
            binding systems
JOURNAL     Patent: WO 03008638-A 44 30-JAN-2003;
            Nanogen Recognomics GmbH (DE)
FEATURES
  source    1. .8
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            /note="Synthetic binding system"
  misc_feature 1. .8
            /note="pyranosyl RNA"

  Query Match      17.0%; Score 3.4; DB 1; Length 9;
  Best Local Similarity 80.0%; Pred. No. 87;
  Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

  Qy 9 AGTCT 13
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  Db 5 AGACT 9

RESULT 57
BD161349
LOCUS      BD161349      10 bp      DNA      linear      PAT 17-JAN-2003
DEFINITION Human activated Th1 and Th2 cell expression genes.
ACCESSION  BD161349
VERSION     BD161349.1 GI:27867107
KEYWORDS    JP 2002186482-A/171.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini,
            Homnidae; Homo.
REFERENCE   1 (bases 1 to 10)
AUTHORS     Nagai,S., Matsushima,K. and Hashimoto,S.
TITLE       Human activated Th1 and Th2 cell expression genes
JOURNAL     Patent: JP 2002186482-A 171 02-JUL-2002;
            JAPAN SCIENCE AND TECHNOLOGY CORP
COMMENT     OS Homo sapiens (human)
            PN JP 2002186482-A/171
            PD 02-JUL-2002
            PF 19-DEC-2000 JP 2000385816
            PI SHIGENORI NAGAI,KOJI MATSUSHIMA,SHINICHI HASHIMOTO PC
            C12N15/09,C07K14/47,C07K16/18,C12P21/08,C12N15/00 CC Human
            activated Th1 and Th2 cell expression genes FH Key
            Location/Qualifiers

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FT source 1..10
FT /organism='Homo sapiens (human)'.
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            /mol_type='genomic DNA'
            /db_xref='taxon:9606'

Query Match
Best Local Similarity 17.0%; Score 3.4; DB 1; Length 10;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
    |||
Db 1 AGACT 5

RESULT 58
AX152820/c
LOCUS AX152820 10 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 735 from Patent WO0138577.
ACCESSION AX152820
VERSION AX152820.1 GI:14534471
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
    Hominidae; Homo.
REFERENCE 1
AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE Human transcriptomes
JOURNAL Patent: WO 0138577-A 735 31-MAY-2001;
The Johns Hopkins University (US)
FEATURES
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        /mol_type='unassigned DNA'
        /db_xref='taxon:9606'

Query Match
Best Local Similarity 17.0%; Score 3.4; DB 1; Length 10;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
    |||
Db 6 AGACT 2

RESULT 59
AX301623/c
LOCUS AX301623 10 bp DNA linear PAT 30-NOV-2001
DEFINITION Sequence 337 from Patent WO0185941.
ACCESSION AX301623
VERSION AX301623.1 GI:17382706
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
    Hominidae; Homo.
REFERENCE 1
AUTHORS Versteeg,R. and Caron,H.N.
TITLE MYC targets
JOURNAL Patent: WO 0185941-A 337 15-NOV-2001;
Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
FEATURES
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        /mol_type='unassigned DNA'
        /db_xref='taxon:9606'

Query Match
Best Local Similarity 17.0%; Score 3.4; DB 1; Length 10;

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Best Local Similarity 80.0%; Pred. No. 61;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
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Db 6 AGACT 2

RESULT 60
AX624946
LOCUS AX624946 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 1987 from Patent WO02053774.
ACCESSION AX624946
VERSION AX624946.1 GI:28452887
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
    Hominidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 1987 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
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        /organism='Homo sapiens'
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Best Local Similarity 80.0%; Pred. No. 56;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
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Db 5 AGGCT 9

RESULT 61
AX632367
LOCUS AX632367 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 9409 from Patent WO02053774.
ACCESSION AX632367
VERSION AX632367.1 GI:28467982
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
    Hominidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 9409 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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Query Match
Best Local Similarity 80.0%; Pred. No. 56;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
    |||
Db 5 AGGCT 9

RESULT 62
AX632367
LOCUS AX632367 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 9409 from Patent WO02053774.
ACCESSION AX632367
VERSION AX632367.1 GI:28467982
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
    Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
    Hominidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 9409 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
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Query Match
Best Local Similarity 80.0%; Pred. No. 56;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
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Db 5 AGGCT 9

RESULT 62

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AX471575  
LOCUS AX471575 11 bp DNA linear PAT 09-AUG-2002  
DEFINITION Sequence 1152 from Patent WO02053773.  
ACCESSION AX471575  
VERSION AX471575.1 GI:22206700  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominidae; Homo.

REFERENCE 1  
AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.  
TITLE Method for determining skin stress or skin ageing in vitro  
JOURNAL Patent: WO 02053773-A 1152 11-JUL-2002;  
HENKEL KGAA (DE)

FEATURES  
source  
1. .11  
Location/Qualifiers  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"

Query Match 17.0%; Score 3.4; DB 1; Length 11;  
Best Local Similarity 80.0%; Pred. No. 56;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13  
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Db 6 AGACT 10

RESULT 63  
AX626145  
LOCUS AX626145 11 bp DNA linear PAT 21-FEB-2003  
DEFINITION Sequence 3186 from Patent WO02053774.  
ACCESSION AX626145  
VERSION AX626145.1 GI:28454183  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominidae; Homo.

REFERENCE 1  
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.  
TITLE Method for determining homeostasis of the skin  
JOURNAL Patent: WO 02053774-A 3186 11-JUL-2002;  
Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES  
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Location/Qualifiers  
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/mol\_type="unassigned DNA"  
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Query Match 17.0%; Score 3.4; DB 1; Length 11;  
Best Local Similarity 80.0%; Pred. No. 56;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13  
|||  
Db 6 AGACT 10

RESULT 64  
CQ624604  
LOCUS CQ624604 17 bp DNA linear PAT 02-FEB-2004  
DEFINITION Sequence 9344 from Patent WO0192524.  
ACCESSION CQ624604  
VERSION CQ624604.1 GI:41674822  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominidae; Homo.

REFERENCE 1  
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.  
TITLE Myosin-like gene expressed in human heart and muscle  
JOURNAL Patent: WO 0192524-A 9344 06-DEC-2001;  
Aeomica, Inc. (US)

FEATURES  
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Location/Qualifiers  
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Best Local Similarity 80.0%; Pred. No. 36;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13  
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Db 8 AGGCT 12

RESULT 65  
CQ624605  
LOCUS CQ624605 17 bp DNA linear PAT 02-FEB-2004  
DEFINITION Sequence 9345 from Patent WO0192524.  
ACCESSION CQ624605  
VERSION CQ624605.1 GI:41674823  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominidae; Homo.

REFERENCE 1  
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.  
TITLE Myosin-like gene expressed in human heart and muscle  
JOURNAL Patent: WO 0192524-A 9345 06-DEC-2001;  
Aeomica, Inc. (US)

FEATURES  
source  
1. .17  
Location/Qualifiers  
/organism="Homo sapiens"  
/mol\_type="unassigned DNA"  
/db\_xref="taxon:9606"

Query Match 17.0%; Score 3.4; DB 1; Length 17;  
Best Local Similarity 80.0%; Pred. No. 36;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13  
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Db 7 AGGCT 11

RESULT 66  
CQ624606  
LOCUS CQ624606 17 bp DNA linear PAT 02-FEB-2004  
DEFINITION Sequence 9346 from Patent WO0192524.  
ACCESSION CQ624606  
VERSION CQ624606.1 GI:41674824  
KEYWORDS  
SOURCE Homo sapiens (human)  
ORGANISM Homo sapiens  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;  
Hominidae; Homo.

REFERENCE 1  
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.  
TITLE Myosin-like gene expressed in human heart and muscle  
JOURNAL Patent: WO 0192524-A 9346 06-DEC-2001;

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FEATURES             source
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    /mol_type="unassigned DNA"
    /db_xref="taxon:9606"

Query Match          17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 36;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
    ||||
Db 6 AGGCT 10

RESULT 67
LOCUS AR465667 17 bp DNA linear PAT 20-FEB-2004
DEFINITION Sequence 9344 from patent US 6686188.
ACCESSION AR465667
VERSION AR465667.1 GI:42700724
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and
Shannon,M.E.
TITLE Polynucleotide encoding a human myosin-like polypeptide expressed
predominantly in heart and muscle
JOURNAL Patent: US 6686188-A 9344 03-FEB-2004;
Amersham PLC; Buckinghamshire;
GBX;

FEATURES             source
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    /mol_type="genomic DNA"

Query Match          17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 36;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
    ||||
Db 8 AGGCT 12

RESULT 68
LOCUS AR465668 17 bp DNA linear PAT 20-FEB-2004
DEFINITION Sequence 9345 from patent US 6686188.
ACCESSION AR465668
VERSION AR465668.1 GI:42700725
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and
Shannon,M.E.
TITLE Polynucleotide encoding a human myosin-like polypeptide expressed
predominantly in heart and muscle
JOURNAL Patent: US 6686188-A 9345 03-FEB-2004;
Amersham PLC; Buckinghamshire;
GBX;

FEATURES             source
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    /organism="unknown"
    /mol_type="genomic DNA"

Query Match          17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 36;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
    ||||
Db 6 AGGCT 10

RESULT 69
LOCUS AR465669 17 bp DNA linear PAT 20-FEB-2004
DEFINITION Sequence 9346 from patent US 6686188.
ACCESSION AR465669
VERSION AR465669.1 GI:42700726
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 17)
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and
Shannon,M.E.
TITLE Polynucleotide encoding a human myosin-like polypeptide expressed
predominantly in heart and muscle
JOURNAL Patent: US 6686188-A 9346 03-FEB-2004;
Amersham PLC; Buckinghamshire;
GBX;

FEATURES             source
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    /mol_type="genomic DNA"

Query Match          17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 36;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
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Db 6 AGGCT 10

RESULT 70
LOCUS BD239234 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239234
VERSION BD239234.1 GI:33049004
KEYWORDS JP 2002534056-A/652.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
REFERENCE 1 (bases 1 to 10)
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 652 15-OCT-2002;
GENZYME CORP
COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/652
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
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19-JUN-1998 US 60/089992,19-JUN-1998 US 60/090072 PR
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19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089844 PR
19-JUN-1998 US 60/090080,19-JUN-1998 US 60/089833 PR
19-JUN-1998 US 60/089994,19-JUN-1998 US 60/090077 PR
19-JUN-1998 US 60/090078,19-JUN-1998 US 60/090047 PR

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19-JUN-1998 US      60/090076,19-JUN-1998 US      60/090045 PR
08-DEC-1998 US      60/111115
PI  BRUCE L ROBERTS, SRINIVAS SHANKARA
PC  C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
    C12N1/19, C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC
    G01N37/00,
PC  C12N15/00,C12N5/00,C12N15/00
CC  Preparation and use of superior vaccines
FH  Key      Location/Qualifiers
FT  source    1..10
           /organism="Homo sapiens (human)".
FEATURES
source
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match      16.0%; Score 3.2; DB 1; Length 10;
Best Local Similarity 62.5%; Pred. No. 63;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy  5 CTCGAGTC 12
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Db  2 CTGAGGCC 9

RESULT 71
AX623703
LOCUS      AX623703      11 bp      DNA      linear      PAT 21-FEB-2003
DEFINITION Sequence 744 from Patent WO02053774.
ACCESSION  AX623703
VERSION     AX623703.1 GI:28451644
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Homnidae; Homo.
REFERENCE   1
AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 744 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      16.0%; Score 3.2; DB 1; Length 11;
Best Local Similarity 62.5%; Pred. No. 58;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy  5 CTCGAGTC 12
    |||||
Db  3 CTGAGAC 10

RESULT 72
AX631124
LOCUS      AX631124      11 bp      DNA      linear      PAT 21-FEB-2003
DEFINITION Sequence 8165 from Patent WO02053774.
ACCESSION  AX631124
VERSION     AX631124.1 GI:28459168
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Homnidae; Homo.
REFERENCE   1
AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.

```

```

TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 8165 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match      16.0%; Score 3.2; DB 1; Length 11;
Best Local Similarity 62.5%; Pred. No. 58;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy  5 CTCGAGTC 12
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Db  3 CTGAGAC 10

RESULT 73
I86909/c
LOCUS      I86909      10 bp      DNA      linear      PAT 10-JUN-1998
DEFINITION Sequence 9 from patent US 5702926.
ACCESSION  I86909
VERSION     I86909.1 GI:3206627
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 10)
AUTHORS    Fraiser,M.S. and Walker,G.Terrance.
TITLE      Nicking of DNA using boronated nucleotides
JOURNAL    Patent: US 5702926-A 9 30-DEC-1997;
            Location/Qualifiers
FEATURES
source
1..10
/organism="unknown"
/mol_type="unassigned DNA"

Query Match      15.0%; Score 3; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 65;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy  1 TTG 3
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Db  8 TTG 6

RESULT 74
BD065278/c
LOCUS      BD065278      10 bp      DNA      linear      PAT 27-AUG-2002
DEFINITION Characterization of the yeast transcriptome.
ACCESSION  BD065278
VERSION     BD065278.1 GI:22610881
KEYWORDS    JP 2001509017-A/214.
SOURCE      Saccharomyces cerevisiae (baker's yeast)
ORGANISM    Saccharomyces cerevisiae
            Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
            Saccharomycetales; Saccharomycetaceae; Saccharomyces.
REFERENCE   1 (bases 1 to 10)
AUTHORS    Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE      Characterization of the yeast transcriptome
JOURNAL    Patent: JP 2001509017-A 214 10-JUL-2001;
            THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
COMMENT     OS Saccharomyces cerevisiae (yeast)
            PN JP 2001509017-A/214
            PD 10-JUN-2001
            PF 22-JAN-1998 JP 1998532117
            PR 23-JAN-1997 US 60/035917
            PI VICTOR E VELCULESCU, BERT VOGELSTEIN, KENNETH W KINZLER PC
            C12N15/10,C12N15/31,C07K14/395,C12Q1/68,C12Q1/02 CC
            Characterization of the yeast transcriptome
            FH Key      Location/Qualifiers
            FT source    1..10
            FT          /organism='Saccharomyces cerevisiae (yeast)'.

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FEATURES             Location/Qualifiers
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     /organism="Saccharomyces cerevisiae"
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     /db_xref="taxon:4932"

Query Match
Best Local Similarity 14.0%; Score 2.8; DB 1; Length 10;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
Db 7 CTGGAG 2

RESULT 75
BD161225/c
LOCUS BD161225 10 bp DNA linear PAT 17-JAN-2003
DEFINITION Human activated Th1 and Th2 cell expression genes.
ACCESSION BD161225
VERSION BD161225.1 GI:27866983
KEYWORDS JP 2002186482-A/47.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1 (bases 1 to 10)
AUTHORS Nagai,S., Matsushima,K. and Hashimoto,S.
TITLE Human activated Th1 and Th2 cell expression genes
JOURNAL Patent: JP 2002186482-A 47 02-JUL-2002;
JAPAN SCIENCE AND TECHNOLOGY CORP
COMMENT OS Homo sapiens (human)
PN JP 2002186482-A/47
PD 02-JUL-2002
PF 19-DEC-2000 JP 2000395816
PI SHIGENORI NAGAI,KOJI MATSUSHIMA,SHINICHI HASHIMOTO PC
C12N15/09,C07K14/47,C07K16/18,C12P21/08,C12N15/00 CC Human
activated Th1 and Th2 cell expression genes FH Key
Location/Qualifiers
FT source
FT 1..10
/organism="Homo sapiens (human)".

FEATURES             Location/Qualifiers
     source
     1..10
     /organism="Homo sapiens"
     /mol_type="genomic DNA"
     /db_xref="taxon:9606"

Query Match
Best Local Similarity 14.0%; Score 2.8; DB 1; Length 10;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
Db 9 CTGGAG 4

RESULT 76
E39559/c
LOCUS E39559 10 bp DNA linear PAT 31-JAN-2002
DEFINITION Genes with human dendritic cell expression.
ACCESSION E39559
VERSION E39559.1 GI:18621650
KEYWORDS JP 2000279181-A/92.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1 (bases 1 to 10)
AUTHORS Hashimoto,S., Matsushima,K. and Suzuki,T.
TITLE Genes with human dendritic cell expression
JOURNAL Patent: JP 2000279181-A 92 10-OCT-2000;

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SCIENCE & TECH AGENCY
OS Homo sapiens (human)
PN JP 2000279181-A/92
PD 10-OCT-2000
PF 01-APR-1999 JP 1999095481
PR SHINICHI HASHIMOTO,KOJI MATSUSHIMA,TAKUJI SUZUKI PC
C12N15/09,C07K14/475,C07K16/18,C12N15/00
CC
FH Key Location/Qualifiers
FT source
FT 1..10
/organism="Homo sapiens (human)".

FEATURES             Location/Qualifiers
     source
     1..10
     /organism="Homo sapiens"
     /mol_type="genomic DNA"
     /db_xref="taxon:9606"

Query Match
Best Local Similarity 14.0%; Score 2.8; DB 1; Length 10;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
Db 9 CTGGAG 4

RESULT 77
AX152455/c
LOCUS AX152455 10 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 370 from Patent WO0138577.
ACCESSION AX152455
VERSION AX152455.1 GI:14534106
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE Human transcriptomes
JOURNAL Patent: WO 0138577-A 370 31-MAY-2001;
The Johns Hopkins University (US)
Location/Qualifiers
FEATURES             Location/Qualifiers
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Query Match
Best Local Similarity 14.0%; Score 2.8; DB 1; Length 10;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
Db 9 CTGGAG 4

RESULT 78
AX301660/c
LOCUS AX301660 10 bp DNA linear PAT 30-NOV-2001
DEFINITION Sequence 374 from Patent WO0185941.
ACCESSION AX301660
VERSION AX301660.1 GI:17382743
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Versteeg,R. and Caron,H.N.

```

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TITLE      Myc targets
JOURNAL    Patent: WO 0185941-A 374 15-NOV-2001;
           Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
FEATURES   Location/Qualifiers
           source
             1..10
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             /mol_type="unassigned DNA"
             /db_xref="taxon:9606"
Query Match      14.0%; Score 2.8; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. No. 67;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      5 CTCCAG 10
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Db      9 CTGCAG 4

RESULT 79
CQ787902/c
LOCUS      CQ787902      8 bp      DNA      linear      PAT 24-MAR-2004
DEFINITION Sequence 208 from Patent WO2004020664.
ACCESSION  CQ787902
VERSION     CQ787902.1 GI:45722860
KEYWORDS   .
SOURCE     Bos taurus (cow)
ORGANISM   Bos taurus
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
           Pecora; Bovidae; Bovinae; Bos.
REFERENCE  1
AUTHORS   Geldermann,H., Preuss,S. and Han,Y.
TITLE     Polymorphous microsatellite loci in genes for pre-diagnostic
           purposes
JOURNAL   Patent: WO 2004020664-A 208 11-MAR-2004;
           Universitaet Hohenheim (DE)
FEATURES   Location/Qualifiers
           source
             1..8
             /organism="Bos taurus"
             /mol_type="unassigned DNA"
             /db_xref="taxon:9913"
satellite  1..8
repeat_unit 1 /note="R16, Allel H"
repeat_unit 3 /note="Anzahl der Wiederholungen: 4"
repeat_unit 5 /note="Anzahl der Wiederholungen: 13"
repeat_unit 8 /note="Anzahl der Wiederholungen: 3"
repeat_unit 8 /note="Anzahl der Wiederholungen: 4"

Query Match      12.0%; Score 2.4; DB 1; Length 8;
Best Local Similarity 75.0%; Pred. No. 98;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      9 AGTC 12
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Db      5 AGAC 2

RESULT 80
CS133813/c
LOCUS      CS133813      9 bp      DNA      linear      PAT 02-AUG-2005
DEFINITION Sequence 355 from Patent WO2005058479.
ACCESSION  CS133813
VERSION     CS133813.1 GI:71793362
KEYWORDS   .
SOURCE     synthetic construct
ORGANISM   synthetic construct
           other sequences; artificial sequences.
REFERENCE  1
AUTHORS   Morgan,B.
           Methods for synthesis of encoded libraries
           Patent: WO 2005058479-A 538 30-JUN-2005;
           Praecis Pharmaceuticals Inc. (US)
FEATURES   Location/Qualifiers
           source
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             /mol_type="unassigned DNA"
             /db_xref="taxon:32630"
             /note="synthetic construct"

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TITLE      Methods for synthesis of encoded libraries
JOURNAL    Patent: WO 2005058479-A 355 30-JUN-2005;
           Praecis Pharmaceuticals Inc. (US)
FEATURES   Location/Qualifiers
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Query Match      12.0%; Score 2.4; DB 1; Length 9;
Best Local Similarity 75.0%; Pred. No. 87;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      7 CCAG 10
        |||
Db      8 CGAG 5

RESULT 81
CS133890
LOCUS      CS133890      9 bp      DNA      linear      PAT 02-AUG-2005
DEFINITION Sequence 432 from Patent WO2005058479.
ACCESSION  CS133890
VERSION     CS133890.1 GI:71793439
KEYWORDS   .
SOURCE     synthetic construct
ORGANISM   synthetic construct
           other sequences; artificial sequences.
REFERENCE  1
AUTHORS   Morgan,B.
           Methods for synthesis of encoded libraries
           Patent: WO 2005058479-A 432 30-JUN-2005;
           Praecis Pharmaceuticals Inc. (US)
FEATURES   Location/Qualifiers
           source
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             /mol_type="unassigned DNA"
             /db_xref="taxon:32630"
             /note="synthetic construct"
Query Match      12.0%; Score 2.4; DB 1; Length 9;
Best Local Similarity 75.0%; Pred. No. 87;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      3 GTCT 6
        |||
Db      6 GACT 9

RESULT 82
CS133996
LOCUS      CS133996      9 bp      DNA      linear      PAT 02-AUG-2005
DEFINITION Sequence 538 from Patent WO2005058479.
ACCESSION  CS133996
VERSION     CS133996.1 GI:71793545
KEYWORDS   .
SOURCE     synthetic construct
ORGANISM   synthetic construct
           other sequences; artificial sequences.
REFERENCE  1
AUTHORS   Morgan,B.
           Methods for synthesis of encoded libraries
           Patent: WO 2005058479-A 538 30-JUN-2005;
           Praecis Pharmaceuticals Inc. (US)
FEATURES   Location/Qualifiers
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             /note="synthetic construct"
Query Match      12.0%; Score 2.4; DB 1; Length 9;

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Best Local Similarity 75.0%; Pred. No. 87;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 CCAG 10
Db 1 CGAG 4

RESULT 83
A11620
LOCUS A11620 10 bp DNA linear PAT 17-NOV-1993
DEFINITION oligonucleotide 'M''.
ACCESSION A11620
VERSION A11620.1 GI:489366
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
1 (bases 1 to 10)
AUTHORS Ueda,I., Niwa,M., Saito,Y., Sato,S., Ono,H. and Kitaguchi,T.
TITLE S9 Valine insulin-like growth factor I and process for production thereof
JOURNAL Patent: EP 0158892-A 116 23-OCT-1985;
FUJISAWA PHARMACEUTICAL CO., LTD
FEATURES
source
Location/Qualifiers
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/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"

Query Match 12.0%; Score 2.4; DB 1; Length 10;
Best Local Similarity 75.0%; Pred. No. 70;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
Db 3 AGAC 6

RESULT 84
A35162
LOCUS A35162 10 bp DNA linear PAT 06-DEC-1996
DEFINITION Synthetic IGF-I gene oligo.
ACCESSION A35162
VERSION A35162.1 GI:1926821
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
1 (bases 1 to 10)
AUTHORS Ueda,I., Niwa,M., Saitoh,S., Saitoh,Y. and Kusunoki,C.
TITLE Process for production of insulin-like growth factor I and plasmid for production thereof
JOURNAL Patent: EP 0219814-A 112 29-APR-1987;
FUJISAWA PHARMACEUTICAL CO., LTD
FEATURES
source
Location/Qualifiers
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/mol_type="unassigned DNA"
/db_xref="taxon:32630"

Query Match 12.0%; Score 2.4; DB 1; Length 10;
Best Local Similarity 75.0%; Pred. No. 70;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
Db 3 AGAC 6

RESULT 85
CQ836521
LOCUS CQ836521 11 bp DNA linear PAT 29-JUL-2004

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DEFINITION Sequence 1579 from Patent WO2004059001.
ACCESSION CQ836521
VERSION CQ836521.1 GI:50836055
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominiidae; Homo.
REFERENCE
1
AUTHORS Petersohn,D., Schlotmann,K., Gassenmeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
TITLE Method for determining markers of human facial skin
JOURNAL Patent: WO 2004059001-A 1579 15-JUL-2004;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
Location/Qualifiers
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Query Match 11.0%; Score 2.2; DB 1; Length 11;
Best Local Similarity 57.1%; Pred. No. 65;
Matches 4; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 9 AGTCTCT 15
Db 3 AGAAACT 9

RESULT 86
CS133889/c
LOCUS CS133889 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 431 from Patent WO2005058479.
ACCESSION CS133889
VERSION CS133889.1 GI:71793438
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.
REFERENCE
1
AUTHORS Morgan,B.
TITLE Methods for synthesis of encoded libraries
JOURNAL Patent: WO 2005058479-A 431 30-JUN-2005;
Praecis Pharmaceuticals Inc. (US)
FEATURES
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Location/Qualifiers
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Query Match 10.0%; Score 2; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 87;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 17 CG 18
Db 8 CG 7

RESULT 87
AR492617
LOCUS AR492617 10 bp DNA linear PAT 15-MAY-2004
DEFINITION Sequence 43 from patent US 6716974.
ACCESSION AR492617
VERSION AR492617.1 GI:47262128
KEYWORDS
SOURCE
ORGANISM
Unknown.
REFERENCE
1 (bases 1 to 10)
AUTHORS Maciag,T., Zimin,A.B., Small,D.J. and Prudovsky,I.A.

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TITLE Therapeutic and diagnostic methods and compositions based on  
jagged/notch proteins and nucleic acids  
JOURNAL Patent: US 6716974-A 43 06-APR-2004;  
Maine Medical Center Research Institute; Scarborough, ME  
FEATURES  
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Query Match 10.0%; Score 2; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 72;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 9 AG 10  
Db 2 AG 3  
RESULT 88  
AX924254  
LOCUS AX924254 11 bp DNA linear PAT 18-DEC-2003  
DEFINITION Sequence 39 from Patent EP1350841.  
ACCESSION AX924254  
VERSION AX924254.1 GI:40217178  
KEYWORDS  
SOURCE synthetic construct  
ORGANISM synthetic construct  
other sequences; artificial sequences.  
REFERENCE 1  
AUTHORS Schoenbrunner, N.J., Myers, T.W. and Gelfand, D.H.  
TITLE Thermostable or thermoactive DNA polymerase with attenuated  
3'-5' exonuclease activity  
JOURNAL Patent: EP 1350841-A 39 08-OCT-2003;  
Roche Diagnostics GmbH (DE) ; F. HOFFMANN-LA ROCHE AG (CH)  
FEATURES  
source Location/Qualifiers  
1. .11  
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/mol\_type="unassigned DNA"  
/db\_xref="taxon:32630"  
Query Match 10.0%; Score 2; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 66;  
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 17 CG 18  
Db 1 CG 2

Search completed: April 23, 2006, 11:37:56  
Job time : 0.001 secs



GenCore version 5.1.7  
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OM nucleic - nucleic search, using sw model

Run on: April 23, 2006, 11:47:44 ; Search time 0.001 Seconds  
(without alignments)  
13.200 Million cell updates/sec

Title: US-10-728-399-1  
Perfect score: 20  
Sequence: 1 ttgtctccagtccttcggt 20

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 0.5

Searched: 19 seqs, 330 residues

Total number of hits satisfying chosen parameters: 38

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 100 summaries

Database : rnpbm.subdb.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	19	95.0	20	1	US-10-728-399-3
3	19	95.0	20	1	US-10-728-399-4
4	18	90.0	20	1	US-10-728-399-2
5	18	90.0	20	1	US-10-728-399-10
6	17	85.0	20	1	US-10-728-399-7
7	17	85.0	20	1	US-10-728-399-18
8	16	80.0	20	1	US-10-728-399-5
9	16	80.0	20	1	US-10-728-399-24
10	13.8	69.0	17	1	US-09-866-108-9344
11	13.8	69.0	17	1	US-09-866-108-9345
12	13.8	69.0	17	1	US-09-866-108-9346
13	13.8	69.0	17	1	US-10-723-361-9344
14	13.8	69.0	17	1	US-10-723-361-9345
15	13.8	69.0	17	1	US-10-723-361-9346
16	10.4	52.0	13	1	US-10-257-017B-103673
17	10.4	52.0	13	1	US-10-257-017B-103674
18	9	45.0	11	1	US-10-401-403-39
19	9	45.0	11	1	US-10-450-797-1152
20	3.6	18.0	20	1	US-10-728-399-1
21	3.6	18.0	20	1	US-10-728-399-3
22	3.6	18.0	20	1	US-10-728-399-4
23	3.6	18.0	20	1	US-10-728-399-2
24	3.6	18.0	20	1	US-10-728-399-10
25	3.6	18.0	20	1	US-10-728-399-7
26	3.6	18.0	20	1	US-10-728-399-18
27	3.4	17.0	11	1	US-10-401-403-39
28	3.4	17.0	11	1	US-10-450-797-1152
29	3.4	17.0	17	1	US-09-866-108-9344
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31	3.4	17.0	17	1	US-09-866-108-9346
32	3.4	17.0	17	1	US-10-723-361-9344
33	3.4	17.0	17	1	US-10-723-361-9345

C 34 3.4 17.0 20 1 US-10-728-399-7 Sequence 7, Appli  
C 35 3.4 17.0 20 1 US-10-728-399-5 Sequence 5, Appli  
C 36 2.4 12.0 13 1 US-10-257-017B-103673 Sequence 103673,  
C 37 2.4 12.0 13 1 US-10-257-017B-103674 Sequence 103674,  
C 38 2 10.0 11 1 US-10-401-403-39 Sequence 39, Appli

ALIGNMENTS

RESULT 1

US-10-728-399-1  
; Sequence 1, Application US/10728399  
; Publication No. US20040132078A1  
; GENERAL INFORMATION:  
; APPLICANT: Pharmacia Corp.  
; APPLICANT: Colca, Jerry  
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION  
; FILE REFERENCE: 01455 1  
; CURRENT APPLICATION NUMBER: US/10/728,399  
; CURRENT FILING DATE: 2003-12-05  
; NUMBER OF SEQ ID NOS: 627  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: artificial  
; FEATURE:  
; OTHER INFORMATION: human mitoneet antisense  
US-10-728-399-1

Query Match 100.0%; Score 20; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 1.9;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCCAGTCCTTCGTT 20  
|||||  
Db 1 TTGTCTCCAGTCCTTCGTT 20

RESULT 2

US-10-728-399-3  
; Sequence 3, Application US/10728399  
; Publication No. US20040132078A1  
; GENERAL INFORMATION:  
; APPLICANT: Pharmacia Corp.  
; APPLICANT: Colca, Jerry  
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION  
; FILE REFERENCE: 01455 1  
; CURRENT APPLICATION NUMBER: US/10/728,399  
; CURRENT FILING DATE: 2003-12-05  
; NUMBER OF SEQ ID NOS: 627  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 3  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: artificial  
; FEATURE:  
; OTHER INFORMATION: human mitoneet antisense  
US-10-728-399-3

Query Match 95.0%; Score 19; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 2.4;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TGTCTCCAGTCCTTCGTT 20  
|||||  
Db 1 TGTCTCCAGTCCTTCGTT 19

RESULT 3

US-10-728-399-4  
; Sequence 4, Application US/10728399

```
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION
; FILE REFERENCE: 01455 1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitoneet antisense
US-10-728-399-4

Query Match          95.0%; Score 19; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCCAGTCTCTTCT 19
   |||||
Db 2 TTGTCTCCAGTCTCTTCT 20

RESULT 4
US-10-728-399-2
; Sequence 2, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION
; FILE REFERENCE: 01455 1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitoneet antisense
US-10-728-399-2

Query Match          90.0%; Score 18; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTCTCTTCGTT 20
   |||||
Db 1 GTCTCCAGTCTCTTCGTT 18

RESULT 5
US-10-728-399-10
; Sequence 10, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION
; FILE REFERENCE: 01455 1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitoneet antisense
US-10-728-399-10

Query Match          90.0%; Score 18; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTCTCTTCGTT 20
   |||||
Db 1 GTCTCCAGTCTCTTCGTT 18

RESULT 6
US-10-728-399-7
; Sequence 7, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION
; FILE REFERENCE: 01455 1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitoneet antisense
US-10-728-399-7

Query Match          85.0%; Score 17; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.5;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGTCTCTTCGTT 20
   |||||
Db 1 TCTCCAGTCTCTTCGTT 17

RESULT 7
US-10-728-399-18
; Sequence 18, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION
; FILE REFERENCE: 01455 1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitoneet antisense
US-10-728-399-18

Query Match          85.0%; Score 17; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.5;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCCAGTCTCTTTC 17
   |||||
Db 4 TTGTCTCCAGTCTCTTTC 20
```

RESULT 8  
US-10-728-399-5  
; Sequence 5, Application US/10728399  
; Publication No. US20040132078A1  
; GENERAL INFORMATION:  
; APPLICANT: Pharmacia Corp.  
; APPLICANT: Colca, Jerry  
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITOCHONDRIAL EXPRESSION  
; FILE REFERENCE: 01455.1  
; CURRENT APPLICATION NUMBER: US/10/728,399  
; CURRENT FILING DATE: 2003-12-05  
; NUMBER OF SEQ ID NOS: 627  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 5  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: artificial  
; FEATURE:  
; OTHER INFORMATION: human mitochondrial antisense  
US-10-728-399-5

Query Match 80.0%; Score 16; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 4.2;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CTCGAGTCTCTTCGTT 20  
|||||  
Db 1 CTCGAGTCTCTTCGTT 16

RESULT 9  
US-10-728-399-24  
; Sequence 24, Application US/10728399  
; Publication No. US20040132078A1  
; GENERAL INFORMATION:  
; APPLICANT: Pharmacia Corp.  
; APPLICANT: Colca, Jerry  
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITOCHONDRIAL EXPRESSION  
; FILE REFERENCE: 01455.1  
; CURRENT APPLICATION NUMBER: US/10/728,399  
; CURRENT FILING DATE: 2003-12-05  
; NUMBER OF SEQ ID NOS: 627  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 24  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: artificial  
; FEATURE:  
; OTHER INFORMATION: human mitochondrial antisense  
US-10-728-399-24

Query Match 80.0%; Score 16; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 4.2;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCCAGTCTCTT 16  
|||||  
Db 5 TTGTCTCCAGTCTCTT 20

RESULT 10  
US-09-866-108-9344/c  
; Sequence 9344, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: Aeomica Sequence Listing Engine  
; SEQ ID NO 9344  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108-9344

Query Match 69.0%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 7.6;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TCTCCAGTCTCTTCGTT 20  
|||||  
Db 17 TCCCAGCCTCTTCGTT 1

RESULT 11  
US-09-866-108-9345/c  
; Sequence 9345, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AEOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27

```

; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Acomica Sequence Listing Engine
; SEQ ID NO 9345
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-9345

```

```

Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 7.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 3 GTCTCCAGTCTCTCGT 19
    ||| ||| ||| ||| |||
Db 17 GTCCCCAGCCTCTTCGT 1

```

```

RESULT 12
US-09-866-108-9346/c
; Sequence 9346, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Acomica Sequence Listing Engine
; SEQ ID NO 9346
; LENGTH: 17
; TYPE: DNA
;
; PRIOR FILING DATE: 2001-01-30

```

```

; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Acomica Sequence Listing Engine
; SEQ ID NO 9346
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-9346

```

```

Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 7.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

Qy 2 TGCTCCAGTCTCTTCG 18
    ||| ||| ||| ||| |||
Db 17 TGCCCCAGCCTCTTCG 1

```

```

RESULT 13
US-10-723-361-9344/c
; Sequence 9344, Application US/10723361
; Publication No. US20040137589A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART ANI
; FILE REFERENCE: PB0105
; CURRENT APPLICATION NUMBER: US/10/723,361
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 09/866,108
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Acomica Sequence Listing Engine
; SEQ ID NO 9344
; LENGTH: 17
; TYPE: DNA
;
; PRIOR FILING DATE: 2001-01-30

```

```
; ORGANISM: Homo sapiens
US-10-723-361-9344

Query Match      69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 7.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TCTCCAGTCTCTTCGTT 20
    ||| ||| ||| ||| ||| ||| |||
Db 17 TCCCCAGCCTCTTCGTT 1

RESULT 14
US-10-723-361-9345/c
; Sequence 9345, Application US/10723361
; Publication No. US20040137589A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART AN
; FILE REFERENCE: PB0105
; CURRENT APPLICATION NUMBER: US/10723.361
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 09/866,108
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 9345
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-723-361-9345

Query Match      69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 7.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTCTCTTCGT 19
    ||| ||| ||| ||| ||| ||| |||
Db 17 GTCCCGAGCCTCTTCGT 1

RESULT 15
US-10-723-361-9346/c
; Sequence 9346, Application US/10723361
; Publication No. US20040137589A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
```

```
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART AN
; FILE REFERENCE: PB0105
; CURRENT APPLICATION NUMBER: US/10723.361
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 09/866,108
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 9346
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-723-361-9346

Query Match      69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 7.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 TGCTCCAGTCTCTTCG 18
    ||| ||| ||| ||| ||| ||| |||
Db 17 TGTCGCCAGCCTCTTCG 1

RESULT 16
US-10-257-017B-103673/c
; Sequence 103673, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 103673
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0025934
US-10-257-017B-103673

Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 18;
```

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCTCCAGTCTCT 15  
|||||

Db 13 TCTCCCGTCTCT 2

## RESULT 17

US-10-257-017B-103674  
; Sequence 103674, Application US/10257017B  
; Publication No. US20040241651A1  
; GENERAL INFORMATION:  
; APPLICANT: Alexander Olek  
; APPLICANT: Christian Piepenbrock  
; APPLICANT: Kurt Berlin  
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine  
; FILE OF INVENTION: methylation  
; FILE REFERENCE: E01/1193/WO  
; CURRENT APPLICATION NUMBER: US/10/257,017B  
; CURRENT FILING DATE: 2002-10-07  
; PRIOR APPLICATION NUMBER: DE 10019173.8  
; PRIOR FILING DATE: 2000-04-07  
; NUMBER OF SEQ ID NOS: 382046  
; SEQ ID NO 103674  
; LENGTH: 13  
; TYPE: DNA  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0025934  
US-10-257-017B-103674

Query Match 52.0%; Score 10.4; DB 1; Length 13;  
Best Local Similarity 91.7%; Pred. No. 18;  
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCTCCAGTCTCT 15  
|||||

Db 1 TCTCCCGTCTCT 12

## RESULT 18

US-10-401-403-39/c  
; Sequence 39, Application US/10401403  
; Publication No. US20040005599A1  
; GENERAL INFORMATION:  
; APPLICANT: Schoenbrunner, Nancy  
; APPLICANT: Myers, Thomas  
; APPLICANT: Gelfand, David  
; TITLE OF INVENTION: THERMOSTABLE OR THERMOACTIVE DNA POLYMERASE MOLECULES  
; FILE OF INVENTION: WITH ATTENUATED 3'-5' EXONUCLEASE ACTIVITY  
; FILE REFERENCE: 21314-US1  
; CURRENT APPLICATION NUMBER: US/10/401,403  
; CURRENT FILING DATE: 2003-03-26  
; PRIOR APPLICATION NUMBER: US 60/369,815  
; PRIOR FILING DATE: 2002-04-02  
; NUMBER OF SEQ ID NOS: 203  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 39  
; LENGTH: 11  
; TYPE: DNA  
; ORGANISM: Artificial sequence  
; FEATURE:  
; OTHER INFORMATION: Primer  
US-10-401-403-39

Query Match 45.0%; Score 9; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 26;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 TCTCTTCGT 19  
|||||

Db 11 TCTCTTCGT 3

## RESULT 19

US-10-450-797-1152/c  
; Sequence 1152, Application US/10450797  
; Publication No. US2004014235A1  
; GENERAL INFORMATION:  
; APPLICANT: Petersohn, Dirk  
; APPLICANT: Conradt, Marcus  
; APPLICANT: Hofmann, Kay  
; TITLE OF INVENTION: METHOD FOR DETERMINING SKIN STRESS OR SKIN AGEING IN VITRO  
; FILE REFERENCE: HENK-0041  
; CURRENT APPLICATION NUMBER: US/10/450,797  
; CURRENT FILING DATE: 2003-12-04  
; PRIOR APPLICATION NUMBER: PCT/EP01/15178  
; PRIOR FILING DATE: 2001-12-20  
; PRIOR APPLICATION NUMBER: DE 101 00 121.5  
; PRIOR FILING DATE: 2001-01-03  
; NUMBER OF SEQ ID NOS: 1435  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1152  
; LENGTH: 11  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-450-797-1152

Query Match 45.0%; Score 9; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 26;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 AGTCTCTTC 17  
|||||

Db 10 AGTCTCTTC 2

## RESULT 20

US-10-728-399-1/c  
; Sequence 1, Application US/10728399  
; Publication No. US20040132078A1  
; GENERAL INFORMATION:  
; APPLICANT: Pharmacia Corp.  
; APPLICANT: Colca, Jerry  
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION  
; FILE REFERENCE: 01455\_1  
; CURRENT APPLICATION NUMBER: US/10/728,399  
; CURRENT FILING DATE: 2003-12-05  
; NUMBER OF SEQ ID NOS: 627  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: artificial  
; FEATURE:  
; OTHER INFORMATION: human mitoneet antisense  
US-10-728-399-1

Query Match 18.0%; Score 3.6; DB 1; Length 20;  
Best Local Similarity 60.0%; Pred. No. 27;  
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTC 12  
|||||

Db 12 GACTGGAGAC 3

## RESULT 21

US-10-728-399-3/c  
; Sequence 3, Application US/10728399  
; Publication No. US20040132078A1  
; GENERAL INFORMATION:  
; APPLICANT: Pharmacia Corp.  
; APPLICANT: Colca, Jerry  
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION  
; FILE REFERENCE: 01455\_1

```
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitONEET antisense
US-10-728-399-3

Query Match      18.0%; Score 3.6; DB 1; Length 20;
Best Local Similarity 60.0%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      3 GTCTCCAGTC 12
Db      11 GACTGGAGAC 2

RESULT 22
US-10-728-399-4/c
; Sequence 4, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF mitONEET EXPRESSION
; FILE REFERENCE: 01455_1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitONEET antisense
US-10-728-399-4

Query Match      18.0%; Score 3.6; DB 1; Length 20;
Best Local Similarity 60.0%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      3 GTCTCCAGTC 12
Db      13 GACTGGAGAC 4

RESULT 23
US-10-728-399-2/c
; Sequence 2, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF mitONEET EXPRESSION
; FILE REFERENCE: 01455_1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitONEET antisense
US-10-728-399-2

Query Match      18.0%; Score 3.6; DB 1; Length 20;

Best Local Similarity 60.0%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      3 GTCTCCAGTC 12
Db      15 GACTGGAGAC 6

RESULT 24
US-10-728-399-10/c
; Sequence 10, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; TITLE OF INVENTION: ANTISENSE MODULATION OF mitONEET EXPRESSION
; FILE REFERENCE: 01455_1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitONEET antisense
US-10-728-399-10

Query Match      18.0%; Score 3.6; DB 1; Length 20;
Best Local Similarity 60.0%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      3 GTCTCCAGTC 12
Db      14 GACTGGAGAC 5

RESULT 25
US-10-728-399-18/c
; Sequence 18, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; TITLE OF INVENTION: ANTISENSE MODULATION OF mitONEET EXPRESSION
; FILE REFERENCE: 01455_1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitONEET antisense
US-10-728-399-18

Query Match      18.0%; Score 3.6; DB 1; Length 20;
Best Local Similarity 60.0%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      3 GTCTCCAGTC 12
Db      15 GACTGGAGAC 6

RESULT 26
US-10-728-399-24/c
; Sequence 24, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
```

; APPLICANT: Pharmacia Corp.  
; APPLICANT: Colca, Jerry  
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION  
; FILE REFERENCE: 01455\_1  
; CURRENT APPLICATION NUMBER: US/10/728,399  
; CURRENT FILING DATE: 2003-12-05  
; NUMBER OF SEQ ID NOS: 627  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 24  
; LENGTH: 20  
; TYPE: DNA  
; ORGANISM: artificial  
; FEATURE:  
; OTHER INFORMATION: human mitoneet antisense  
US-10-728-399-24

Query Match 18.0%; Score 3.6; DB 1; Length 20;  
Best Local Similarity 60.0%; Pred. No. 27;  
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTC 12  
Db 16 GACTGGAGAC 7  
|||||

RESULT 27  
US-10-450-797-1152  
; Sequence 1152, Application US/10450797  
; Publication No. US20040142335A1  
; GENERAL INFORMATION:  
; APPLICANT: Petersohn, Dick  
; APPLICANT: Conradt, Marcus  
; APPLICANT: Hofmann, Kay  
; TITLE OF INVENTION: METHOD FOR DETERMINING SKIN STRESS OR SKIN AGEING IN VITRO  
; FILE REFERENCE: HENK-0041  
; CURRENT APPLICATION NUMBER: US/10/450,797  
; CURRENT FILING DATE: 2003-12-04  
; PRIOR APPLICATION NUMBER: PCT/EP01/15178  
; PRIOR FILING DATE: 2001-12-20  
; PRIOR APPLICATION NUMBER: DE 101 00 121.5  
; PRIOR FILING DATE: 2001-01-03  
; NUMBER OF SEQ ID NOS: 1435  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1152  
; LENGTH: 11  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-450-797-1152

Query Match 17.0%; Score 3.4; DB 1; Length 11;  
Best Local Similarity 80.0%; Pred. No. 51;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
Db 6 AGACT 10  
|||

RESULT 28  
US-09-866-108-9344  
; Sequence 9344, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: ABOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108

; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: Aeonica Sequence Listing Engine  
; SEQ ID NO 9344  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108-9344

Query Match 17.0%; Score 3.4; DB 1; Length 17;  
Best Local Similarity 80.0%; Pred. No. 33;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
Db 8 AGGCT 12  
|||

RESULT 29  
US-09-866-108-9345  
; Sequence 9345, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharron G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: ABOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667



; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: Aecomica Sequence Listing Engine  
; SEQ ID NO 9345  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108-9345

Query Match 17.0%; Score 3.4; DB 1; Length 17;  
Best Local Similarity 80.0%; Pred. No. 33;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
|||  
Db 7 AGGCT 11

RESULT 30  
US-09-866-108-9346  
; Sequence 9346, Application US/09866108  
; Patent No. US20020048800A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharon G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE  
; FILE REFERENCE: AECOMICA-7  
; CURRENT APPLICATION NUMBER: US/09/866,108  
; CURRENT FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663

; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 60/266,860  
; PRIOR FILING DATE: 2001-02-05  
; NUMBER OF SEQ ID NOS: 15752  
; SOFTWARE: Aecomica Sequence Listing Engine  
; SEQ ID NO 9346  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-866-108-9346

Query Match 17.0%; Score 3.4; DB 1; Length 17;  
Best Local Similarity 80.0%; Pred. No. 33;  
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
|||  
Db 6 AGGCT 10

RESULT 31  
US-10-723-361-9344  
; Sequence 9344, Application US/10723361  
; Publication No. US20040137589A1  
; GENERAL INFORMATION:  
; APPLICANT: GU, Yizhong  
; APPLICANT: JI, Yonggang  
; APPLICANT: PENN, Sharon G.  
; APPLICANT: HANZEL, David K.  
; APPLICANT: RANK, David R.  
; APPLICANT: CHEN, Wensheng  
; APPLICANT: SHANNON, Mark  
; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART AND  
; FILE REFERENCE: PB0105  
; CURRENT APPLICATION NUMBER: US/10/723,361  
; CURRENT FILING DATE: 2003-11-26  
; PRIOR APPLICATION NUMBER: US 09/866,108  
; PRIOR FILING DATE: 2001-05-25  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 15755  
; SOFTWARE: Aecomica Sequence Listing Engine  
; SEQ ID NO 9344  
; LENGTH: 17  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-723-361-9344

Query Match 17.0%; Score 3.4; DB 1; Length 17;  
 Best Local Similarity 80.0%; Pred. No. 33;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
 ||||  
 Db 8 AGGCT 12

## RESULT 32

US-10-723-361-9345  
 ; Sequence 9345, Application US/10723361  
 ; Publication No. US20040137589A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: GU, Yizhong  
 ; APPLICANT: JI, Yonggang  
 ; APPLICANT: PENN, Sharron G.  
 ; APPLICANT: HANZEL, David K.  
 ; APPLICANT: RANK, David R.  
 ; APPLICANT: CHEN, Wensheng  
 ; APPLICANT: SHANNON, Mark  
 ; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART AN  
 ; FILE REFERENCE: PB0105  
 ; CURRENT APPLICATION NUMBER: US/10/723,361  
 ; CURRENT FILING DATE: 2003-11-26  
 ; PRIOR APPLICATION NUMBER: US 09/866,108  
 ; PRIOR FILING DATE: 2001-05-25  
 ; PRIOR APPLICATION NUMBER: US 60/207,456  
 ; PRIOR FILING DATE: 2000-05-26  
 ; PRIOR APPLICATION NUMBER: GB 24263.6  
 ; PRIOR FILING DATE: 2000-10-04  
 ; PRIOR APPLICATION NUMBER: US 60/236,359  
 ; PRIOR FILING DATE: 2000-09-27  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00666  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00667  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00664  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00669  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00665  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00668  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 15755  
 ; SOFTWARE: Aeomica Sequence Listing Engine  
 ; SEQ ID NO 9345  
 ; LENGTH: 17  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-723-361-9345

Query Match 17.0%; Score 3.4; DB 1; Length 17;  
 Best Local Similarity 80.0%; Pred. No. 33;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
 ||||  
 Db 7 AGGCT 11

## RESULT 33

US-10-723-361-9346  
 ; Sequence 9346, Application US/10723361  
 ; Publication No. US20040137589A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: GU, Yizhong  
 ; APPLICANT: JI, Yonggang  
 ; APPLICANT: PENN, Sharron G.  
 ; APPLICANT: HANZEL, David K.  
 ; APPLICANT: RANK, David R.

; APPLICANT: CHEN, Wensheng  
 ; APPLICANT: SHANNON, Mark  
 ; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART AN  
 ; FILE REFERENCE: PB0105  
 ; CURRENT APPLICATION NUMBER: US/10/723,361  
 ; CURRENT FILING DATE: 2003-11-26  
 ; PRIOR APPLICATION NUMBER: US 09/866,108  
 ; PRIOR FILING DATE: 2001-05-25  
 ; PRIOR APPLICATION NUMBER: US 60/207,456  
 ; PRIOR FILING DATE: 2000-05-26  
 ; PRIOR APPLICATION NUMBER: GB 24263.6  
 ; PRIOR FILING DATE: 2000-10-04  
 ; PRIOR APPLICATION NUMBER: US 60/236,359  
 ; PRIOR FILING DATE: 2000-09-27  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00666  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00667  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00664  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00669  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00665  
 ; PRIOR FILING DATE: 2001-01-30  
 ; PRIOR APPLICATION NUMBER: PCT/US01/00668  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 15755  
 ; SOFTWARE: Aeomica Sequence Listing Engine  
 ; SEQ ID NO 9346  
 ; LENGTH: 17  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 US-10-723-361-9346

Query Match 17.0%; Score 3.4; DB 1; Length 17;  
 Best Local Similarity 80.0%; Pred. No. 33;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
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 Db 6 AGGCT 10

## RESULT 34

US-10-728-399-7/c  
 ; Sequence 7, Application US/10728399  
 ; Publication No. US20040132078A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Colca, Jerry  
 ; APPLICANT: Pharmacia Corp.  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION  
 ; FILE REFERENCE: 01455\_1  
 ; CURRENT APPLICATION NUMBER: US/10/728,399  
 ; CURRENT FILING DATE: 2003-12-05  
 ; NUMBER OF SEQ ID NOS: 627  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 7  
 ; LENGTH: 20  
 ; TYPE: DNA  
 ; ORGANISM: artificial  
 ; FEATURE:  
 ; OTHER INFORMATION: human mitONEET antisense  
 US-10-728-399-7

Query Match 17.0%; Score 3.4; DB 1; Length 20;  
 Best Local Similarity 80.0%; Pred. No. 28;  
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13  
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 Db 10 AGACT 6

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RESULT 35
US-10-728-399-5/c
; Sequence 5, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITOCHONDRIAL EXPRESSION
; FILE REFERENCE: 01455.1
; CURRENT APPLICATION NUMBER: US/10/728.399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitochondrial antisense
US-10-728-399-5

Query Match      17.0%; Score 3.4; DB 1; Length 20;
Best Local Similarity 80.0%; Pred. No. 28;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db 9 AGACT 5

RESULT 36
US-10-257-017B-103673
; Sequence 103673, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 103673
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0025934
US-10-257-017B-103673

Query Match      12.0%; Score 2.4; DB 1; Length 13;
Best Local Similarity 75.0%; Pred. No. 46;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
Db 4 AGAC 7

RESULT 37
US-10-257-017B-103674/c
; Sequence 103674, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
```

```
; TITLE OF INVENTION: methylations
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 103674
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0025934
US-10-257-017B-103674

Query Match      12.0%; Score 2.4; DB 1; Length 13;
Best Local Similarity 75.0%; Pred. No. 46;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
Db 10 AGAC 7

RESULT 38
US-10-401-403-39
; Sequence 39, Application US/10401403
; Publication No. US20040005599A1
; GENERAL INFORMATION:
; APPLICANT: Schoenbrunner, Nancy
; APPLICANT: Myers, Thomas
; APPLICANT: Gelfand, David
; TITLE OF INVENTION: THERMOSTABLE OR THERMOACTIVE DNA POLYMERASE MOLECULES
; FILE REFERENCE: 21314-US1
; CURRENT APPLICATION NUMBER: US/10/401,403
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US 60/369,815
; PRIOR FILING DATE: 2002-04-02
; NUMBER OF SEQ ID NOS: 203
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 39
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-401-403-39

Query Match      10.0%; Score 2; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 17 CG 18
Db 1 CG 2

Search completed: April 23, 2006, 11:47:45
Job time : 0.001 secs
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RESULT 1
US-11-101-244-1102924/c
; Sequence 1102924, Application US/11101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scarsinge, Stephen
; TITLE OF INVENTION: Functional and Hyperf
; FILE REFERENCE: 134990US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911

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; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1102943
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1102943

Query Match      85.0%; Score 17; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCCTCCAGTCTCTTC 17
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Db 17 TTGTCCTCCAGTCTCTTC 1

RESULT 4
US-11-083-784-1102943/c
; Sequence 1102943, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1102943
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1102943

Query Match      85.0%; Score 17; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCCTCCAGTCTCTTC 17
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Db 17 TTGTCCTCCAGTCTCTTC 1

RESULT 5
US-11-101-244-1102924
; Sequence 1102924, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1102924
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1102924

Query Match      18.0%; Score 3.6; DB 1; Length 19;
Best Local Similarity 50.0%; Pred. No. 6.9;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTC 12
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Db 7 GACUGGAGAC 16

RESULT 6
US-11-083-784-1102924
; Sequence 1102924, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1102924
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1102924

Query Match      18.0%; Score 3.6; DB 1; Length 19;
Best Local Similarity 50.0%; Pred. No. 6.9;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTC 12
   |||
Db 7 GACUGGAGAC 16

RESULT 7
US-11-101-244-1102943
; Sequence 1102943, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
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; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1102943  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-101-244-1102943

Query Match 18.0%; Score 3.6; DB 1; Length 19;  
Best Local Similarity 50.0%; Pred. No. 6.9;  
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;  
  
Qy 3 GTCTCCAGTC 12  
| | | | |  
Db 6 GACUGGAGAC 15

RESULT 8  
US-11-083-784-1102943  
; Sequence 1102943, Application US/11083784  
; Publication No. US20050245475A1  
; GENERAL INFORMATION:  
; APPLICANT: Dharmacon, Inc.  
; APPLICANT: Khvorova, Anastasia  
; APPLICANT: Reynolds, Angela  
; APPLICANT: Leake, Devin  
; APPLICANT: Marshall, William  
; APPLICANT: Scaringe, Stephen  
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA  
; FILE REFERENCE: 13499US  
; CURRENT APPLICATION NUMBER: US/11/083.784  
; CURRENT FILING DATE: 2005-03-18  
; PRIOR APPLICATION NUMBER: US/10/714,333  
; PRIOR FILING DATE: 2003-11-14  
; PRIOR APPLICATION NUMBER: 60/502,050  
; PRIOR FILING DATE: 2003-09-10  
; PRIOR APPLICATION NUMBER: 60/426,137  
; PRIOR FILING DATE: 2002-11-14  
; NUMBER OF SEQ ID NOS: 1591911  
; SOFTWARE: Proprietary  
; SEQ ID NO 1102943  
; LENGTH: 19  
; TYPE: RNA  
; ORGANISM: Homo sapiens  
US-11-083-784-1102943

Query Match 18.0%; Score 3.6; DB 1; Length 19;  
Best Local Similarity 50.0%; Pred. No. 6.9;  
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;  
  
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| | | | |  
Db 6 GACUGGAGAC 15

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Job time : 0.001 secs





Тел: 82 31 330 6193

7; Conservative 0; Misr

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Best Local Similarity 87.5%; Pred. No. 0;  
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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      |||||
Db      1 TTGTCACC 8

RESULT 3
CF313414
LOCUS   CF313414
DEFINITION HD--01-115.b1 OsHDAC1-overexpressing transgenic rice plasmid cDNA
          library (HD) Oryza sativa (japonica cultivar-group) cDNA clone
ACCESSION CF313414
VERSION   HD--01-115, mRNA sequence.
KEYWORDS  CF313414.1 GI:33685175
SOURCE   Oryza sativa (japonica cultivar-group)
ORGANISM Oryza sativa (japonica cultivar-group)
          Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
          Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
          Ehrhartoideae; Oryzaceae; Oryza.
REFERENCE 1 (bases 1 to 9)
AUTHORS  Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,
          Song,S.I., Kim,J.K., Kim,Y.-K. and Nahm,B.H.
TITLE    Large-scale Sequencing Analysis of Rice ESTs
JOURNAL  Unpublished (2003)
COMMENT  Contact: Nahm B.H.
          Genomics and Genetics Institute, GreenGene Biotech Inc.; Division
          of Bioscience and Bioinformatics, Myongui University
          Yongin, Kyeonggi, Korea
          Tel: 82 31 330 6193
          Fax: 82 31 321 6355
          Email: bhnahm@gbio.com, bhnahm@bio.myongji.ac.kr.

FEATURES             source
     source
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         /organism="Oryza sativa (japonica cultivar-group)"
         /mol_type="mRNA"
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         /dev_stage="proliferated callus on 2N6 media for 2 weeks"
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         /clone_lib="OsHDAC1-overexpressing transgenic rice plasmid
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         /note="vector: pCR4-TOPO; Site 1: EcoRI; Callus was
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         line."

     Query Match      17.0%; Score 3.4; DB 1; Length 9;
     Best Local Similarity 80.0%; Pred. No. 0;
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      ||||
Db      1 AGACT 5

RESULT 4
CV933313/c
LOCUS   CV933313
DEFINITION PNMcm_0658 mating of 88069 (A1) and 618 (A2) Phytophthora infestans
          cDNA, mRNA sequence.
ACCESSION CV933313
VERSION   CV933313.1 GI:58122928
KEYWORDS  EST.
SOURCE   Phytophthora infestans (potato late blight agent)
ORGANISM Phytophthora infestans
          Eukaryota; stramenopiles; Oomycetes; Pythiales; Pythiaceae;
          Phytophthora.
REFERENCE 1 (bases 1 to 8)
AUTHORS  Randall,T., Dwyer,R.A., Huitema,E., Beyer,K., Cvitanich,C.,

Kelkar,H., Pong,A.M., Gates,K., Roberts,S., Yatzkan,E., Gaffney,T.,
Law,M., Testa,A., Torto-Alalibo,A., Zhang,M., Zheng,L., Mueller,E.,
Windass,J., Binder,A., Birch,P.R.J., Gisi,U., Govers,F., Gow,N.A.,
Mauch,F., van West,P., Waugh,M.E., Yu,J., Boller,T., Kamoun,S.,
Lam,S.T. and Judelson, H.S.
Large-scale gene discovery in the oomycete Phytophthora infestans
reveals likely components of phytopathogenicity shared with true
fungi
Mol. Plant-Microbe Interact. 18 (3), 229-243 (2005)
15782637
Contact: Judelson HS
Department of Plant Pathology
University of California
Webber Hall, Riverside, CA 92521, USA
Tel: 909 787 4199
Fax: 909 787 4294
Email: howard.judelson@ucr.edu.
Location/Qualifiers
1..8
/organism="Phytophthora infestans"
/mol_type="mRNA"
/strain="88069 and 618"
/db_xref="taxon:4787"
/sex="A1 and A2"
/clone_lib="mating of 88069 (A1) and 618 (A2)"
/note="Vector: pSPORT1"

Query Match      12.0%; Score 2.4; DB 1; Length 8;
Best Local Similarity 75.0%; Pred. No. 0;
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Job time : 0.001 secs

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